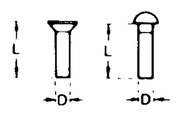
HARDWARE NOMENCLATURE

Screw: – P 3 x 10
- *L: Length in mm*
- *D: Diameter in mm*
- *Type of head*
- *Indicated slotted-head only.*
- *Unless otherwise indicated, it means cross-recessed head (Phillips type).*



Nut, Washer, Retaining ring: N 3
- *Diameter of usable screw or shaft*
- *Reference designation*

Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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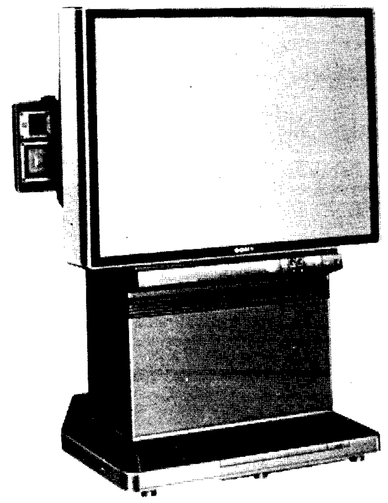
SERVICE MANUAL

US Model
Chassis No. SCC-775A-A

Canadian Model
Chassis No. SCC-A02A-A



Note: The service manuals for RM-736 and APM-X4 have been issued separately.

June, 1986

SPECIFICATIONS

Structure	Screen and projector, rear projection type
Projection system	3-picture tubes, 3 lenses, horizontal in-line system
Picture tube	4 inch high-brightness monochrome tubes, with optical coupling and cooling system
Projection lenses	High-performance, large-diameter glass lens F 1.0
Screen material	Acrylic plastic, Fresnel lenticular type
Projected picture size (measured diagonally)	36 inches
Viewing distance	1.8m (approx. 6 ft) minimum to 12m (approx. 40 ft) maximum
Optimum seating arrangement	Within approx. 80 degrees from center
Screen brightness	Typical 300 foot-Lamberts
Television system	American TV standards
Channel coverage	VHF: 2–13 UHF: 14–69 CATV: 1–125
Antenna	75-ohm external antenna terminal for VHF/UHF/CATV
Inputs	VIDEO 1,2,3 IN (phono jacks) Video: 1Vp-p, 75 ohms unbalanced, sync negative Audio: 408mVrms (100% modulation, 47 kilohms) CONTROL IN (mini jack) 5Vp-p 75-ohm external antenna terminal for VHF/UHF/CATV AUX 75-ohm auxiliary antenna terminal
Outputs	MONITOR OUT (phono jack) Video: 1Vp-p, 75 ohms unbalanced, sync negative Audio: 408mVrms (100% modulation, 1 kilohm) CONTROL OUT (mini jack) 5Vp-p TO CONVERTER terminal
Speaker	Two-way speaker system Woofer: 55cm² APM speaker Tweeter: 2cm (dia.) cone speaker Weight: 1.47 kg (3 lb 4 oz)
Power requirements	120V AC, 60Hz
Power consumption	185W (max.), 135W (average) 4W (in standby condition)

	Dimensions (w/h/d)	Weight
Unit itself	800 × 1129 × 625 mm (31½ × 44½ × 24¾ inches)	36.9 kg (81 lb. 6 oz.)
With folded speakers	973 × 1129 × 625 mm (38⅜ × 44½ × 24¾ inches)	39.8 kg (87 lb. 14 oz.)

—Continued on page 2—

MICROFILM

COLOR REAR VIDEO PROJECTOR

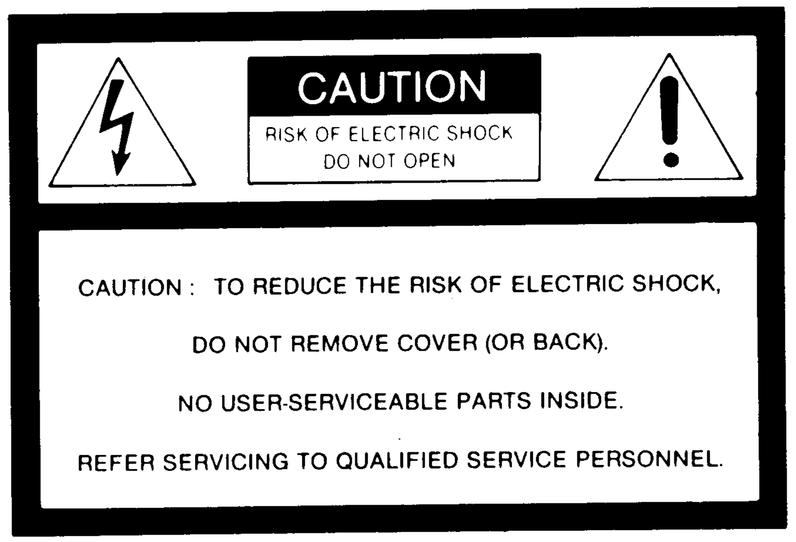
SONY®

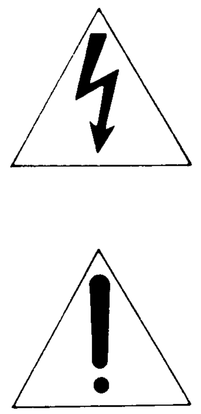
Accessories supplied
Remote Commander RM-736 (1)
with 2 size AA batteries
Speaker APM-X4 (2)
Antenna connector (1)
Optional accessories
Connecting cables (See page 13)

Design and specifications are subject to change without notice.

WARNING

To prevent fire or shock hazard, do not expose the set to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

UN TRANSFORMATEUR D'ISOLEMENT DOIT TOUJOURS ÊTRE UTILISÉ AU COURS DU SERVICE AFIN D'ÉVITER TOUT RISQUE ÉVENTUEL DE CHOC EN RAISON DU CHÂSSIS QUI EST SOUS TENSION.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RELIÉ À LA LIGNE D'ALIMENTATION ÉLECTRIQUE C.A.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÈDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

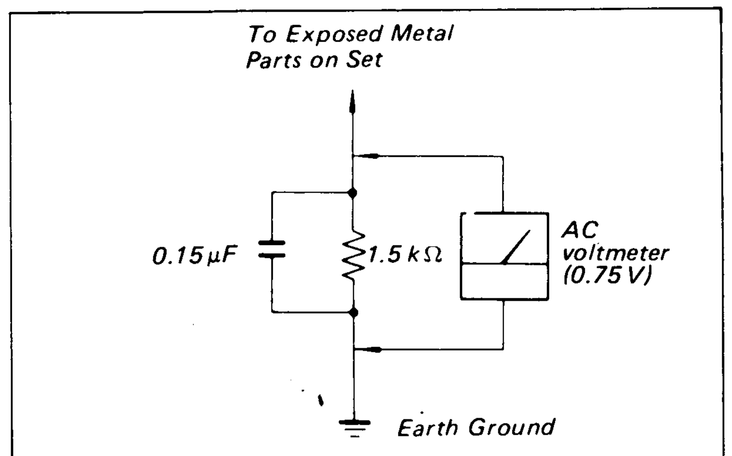

Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

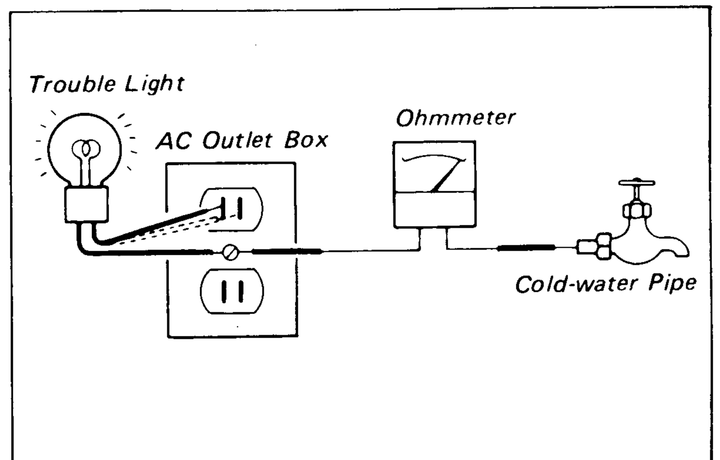

Fig. B. Checking for earth ground.

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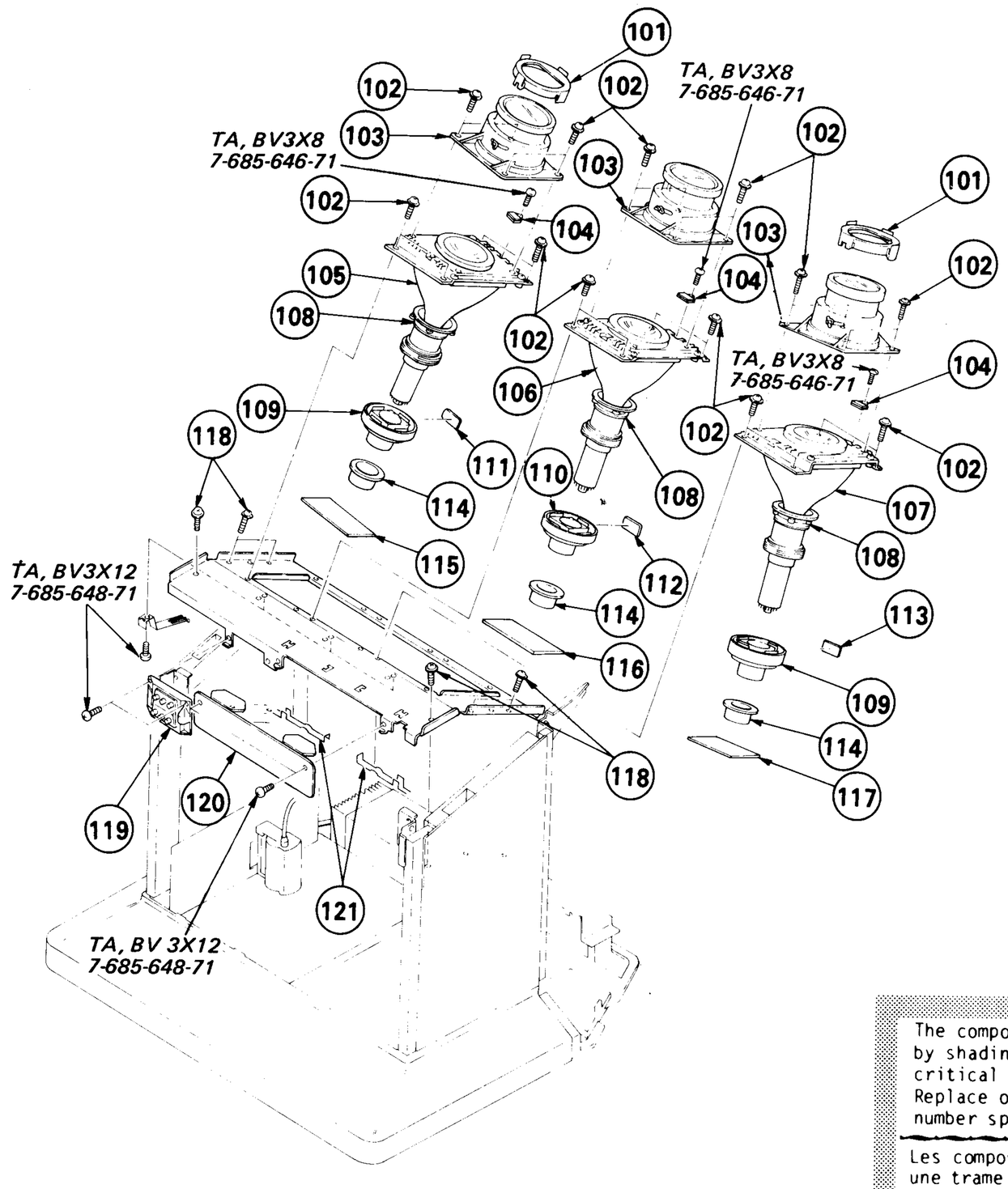


The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

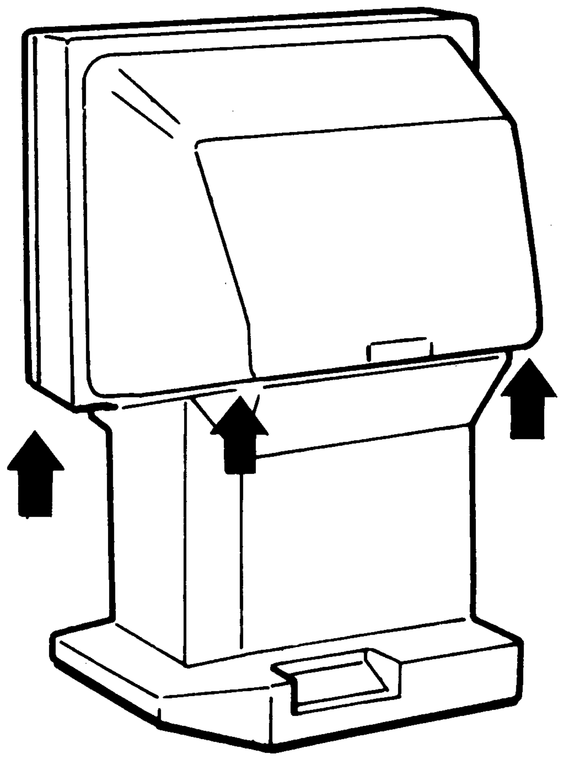
Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remark
101	4-381-028-01	CAP, BLIND	
102	3-703-251-00	SCREW (+M4), IT TAPPING	
103	4-381-024-01	LENS, 5387F	
104	⚠ 1-570-258-11	SWITCH, THERMAL REED	
105	⚠ 8-738-353-05	CRT (SD-186(R))	
106	⚠ 8-738-351-05	CRT (SD-186(G))	
107	⚠ 8-738-352-05	CRT (SD-186(B))	
108	⚠ 1-451-292-11	DEFLECTION YOKE (SY-186)	
109	⚠ 1-452-361-12	NECK ASSY, CRT (NA365)	
110	⚠ 1-452-361-22	NECK ASSY, CRT (NA365)	
111	* 1-618-355-11	XR BOARD	
112	* 1-618-356-11	XG BOARD	
113	* 1-618-357-11	XB BOARD	
114	⚠ 1-452-261-31	CRT NECK ASSY (362)	
115	* 1-615-623-11	CR BOARD	
116	* 1-615-624-11	CG BOARD	
117	* 1-615-625-11	CB BOARD	
118	3-701-810-91	SCREW, TERMINAL	
119	⚠ 1-237-279-11	RESISTOR ASSY, HIGH-VOLTAGE	
120	* A-1340-794-A	DB BOARD, COMPLETE	
121	* 4-381-006-01	SPRING	

PRECAUTIONS

SAFETY

- Operate the set only on 120 V AC.
- Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified personnel before operating it any further.
- Unplug the set from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.



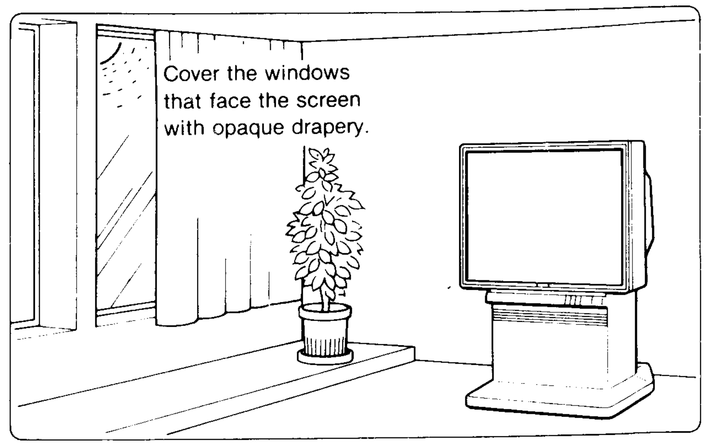
INSTALLATION

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the set in a hot or humid place or in a place subject to direct sunlight, excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperatures below 5°C (41°F).
- After the set has been transported from a cold location directly to a warm location, or if the room temperature has changed suddenly, pictures may be blurred or show poor color over portions of the picture. This is because moisture has condensed on the mirrors or lenses inside the projector. Wait until the moisture evaporates.
- Avoid placing the set on a slanting or uneven floor. When carrying the set, hold the positions indicated with the arrows by two persons.
- When carrying the set, hold the positions indicated with the arrows by two persons.

ILLUMINATION

- To obtain a clear picture, the screen should not be exposed to illumination or sunlight directly from the front.

Spot lighting whose light comes down from the ceiling is recommended.



It is desirable to install the projector in a room whose floors and walls are not of light-reflecting material.
If these are of reflecting material, it would be desirable to change to a dark carpet or wall paper.

MAINTENANCE

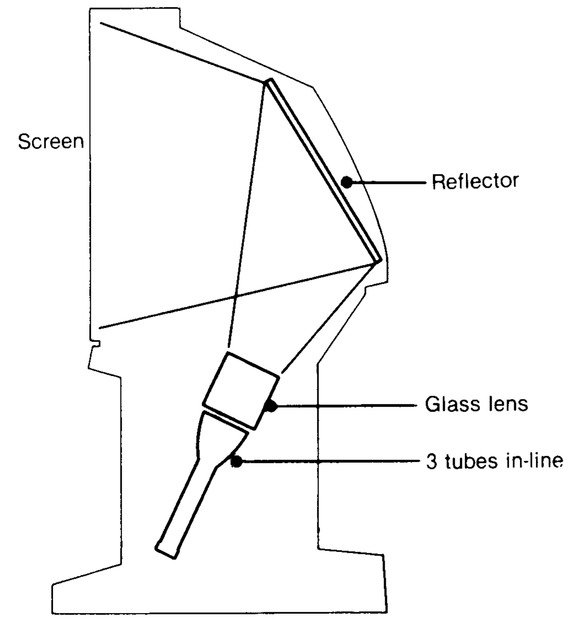
- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your set. For maximum protection, repack your set as it was originally packed at the factory.
- To keep the cabinet looking brand-new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the set before cleaning it.
- To remove dust from the front of the screen, unplug the set and wipe it gently with a soft cloth slightly dampened with water or a mild detergent solution, using vertical strokes only. Then wipe it again with a dry, soft cloth. Never use solvents or thinners for cleaning purposes.
- If the picture becomes darkened after the set has been in use for a long period of time, cleaning the inside of the projector may be required. Consult qualified service personnel for this.

Use of this color rear video projector for other than private performance of programs broadcast for the use of the general public may require authorization from the transmitter and/or owner of such programs. Use with cable television transmission may require authorization from the cable system transmitter and/or program owner.

SECTION 1
GENERAL

1-1. FEATURES

- Remote control color rear video projector with a multifunction Remote Commander projects TV pictures on a self-contained 36-inch screen (measured diagonally).
- A unique "folded optics" system with one reflector less than other systems provides "compact and slim" projector design.



- New "Optical coupling and cooling" system remarkably improves the picture contrast.
- Two-way speakers provide powerful sound reproduction.
- Built-in stereo decoder decodes MTS (Multichannel TV sound) broadcasts into left and right stereo or SAP (Second Audio Program) channels.*
- Multi-band VHF/UHF/CATV tuner receives up to 125 cable channels for total of 181 possible off-air and cable channels.
- Built-in video and L/R audio line outputs provide the selected output from the TV tuner or any of the equipment connected to the audio-video line inputs.
- On-screen displays for easy reference to operating modes and adjustments.
- Dynamic Picture™ circuitry automatically adjusts the picture contrast to produce more detail in bright and dark areas of the scene.
- Dynamic Focus™ circuitry automatically focuses the scanning electron beam for enhanced sharpness over the entire picture, especially in corners.
- Colorpure Filter™ separately processes B/W picture information from color information to produce a dramatically sharper picture

*Depends on availability of off-air stereo broadcasts

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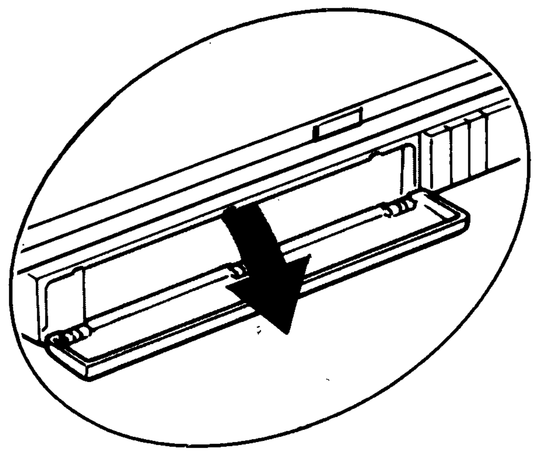
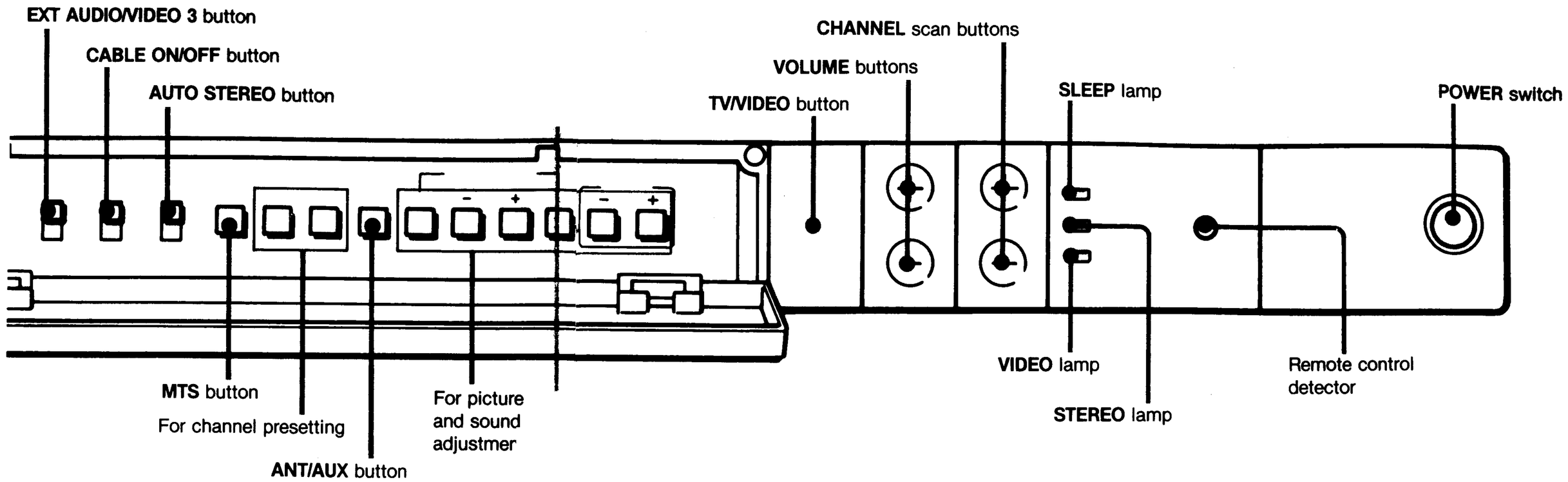
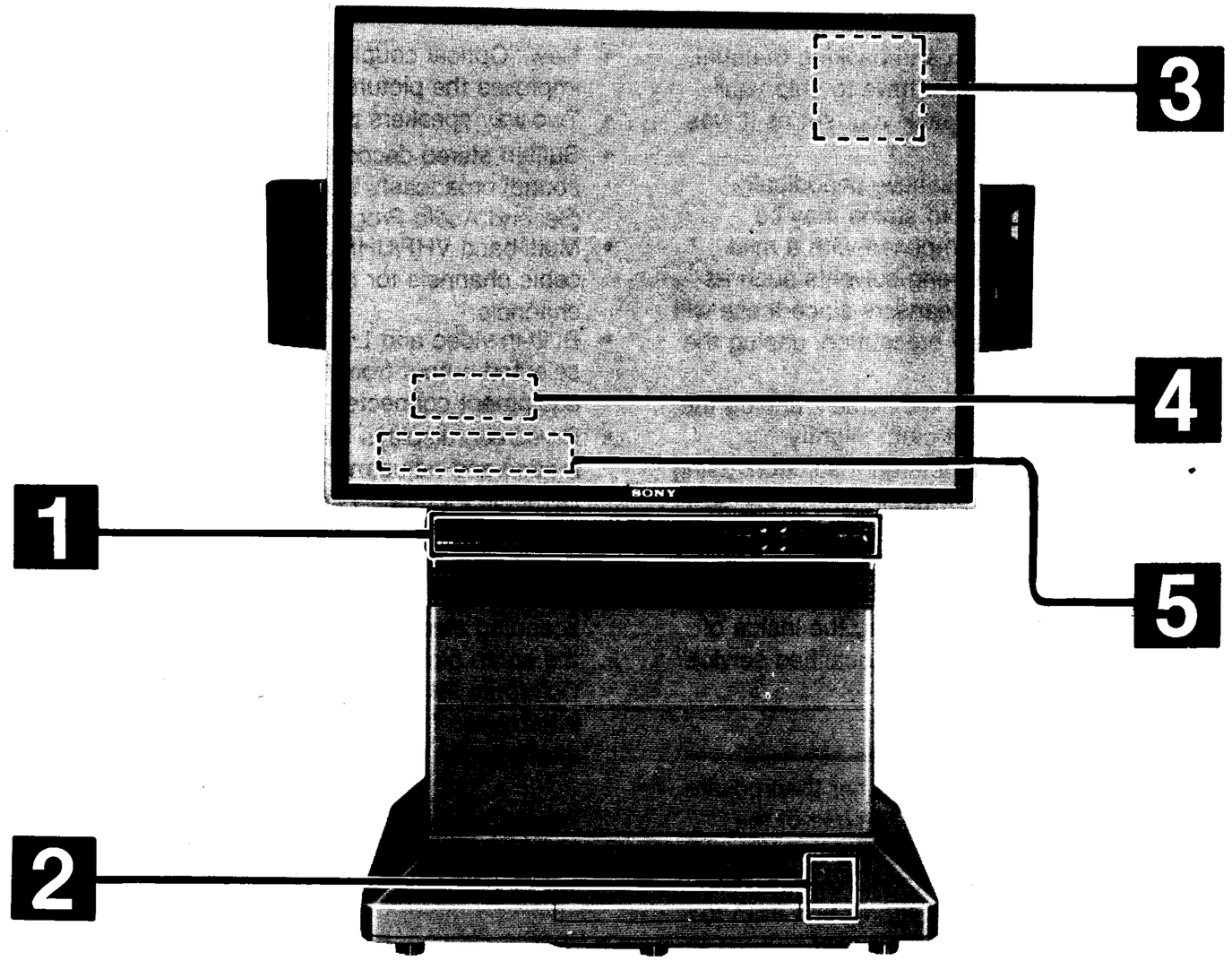
1-2. LOCATION OF CONTROLS

See page 12 for the location of jacks and controls on the back.

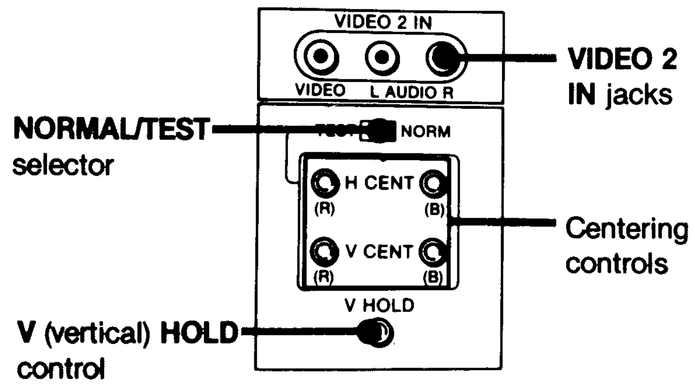
1 CONTROL PANEL

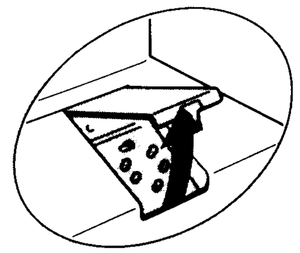






2 REGISTRATION PANEL





3 ON-SCRREN DISPLAY FOR:

- Channel number
- MTS mode (MAIN, SAP or BOTH)
- Selected input sources (VIDEO 1, VIDEO 2, VIDEO 3 or EXT-A)
- AUX, MUTING or SLEEP indication

4 ITEM DISPLAY

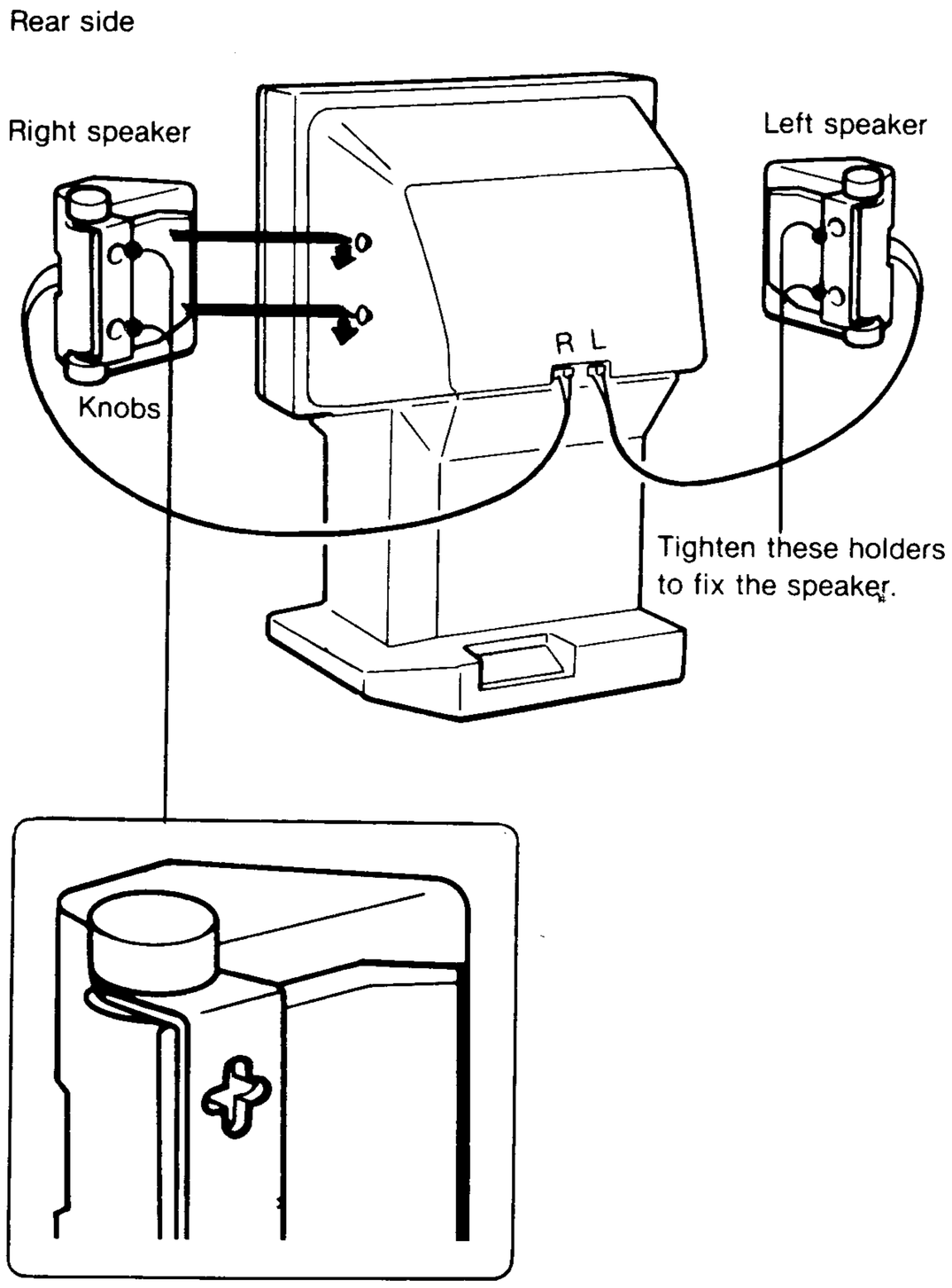
Indiactes the selected item to be adjusted by the ADJUSTMENT buttons and RESET indication.

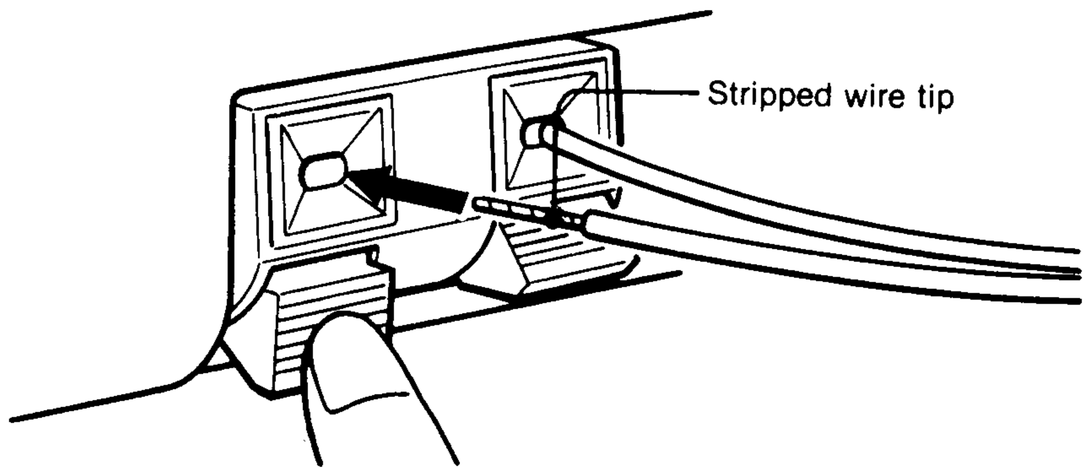
5 ADJUSTMENT DISPLAY

Indicates the picture and sound adjustment levels.

1-3. SPEAKER SET-UP

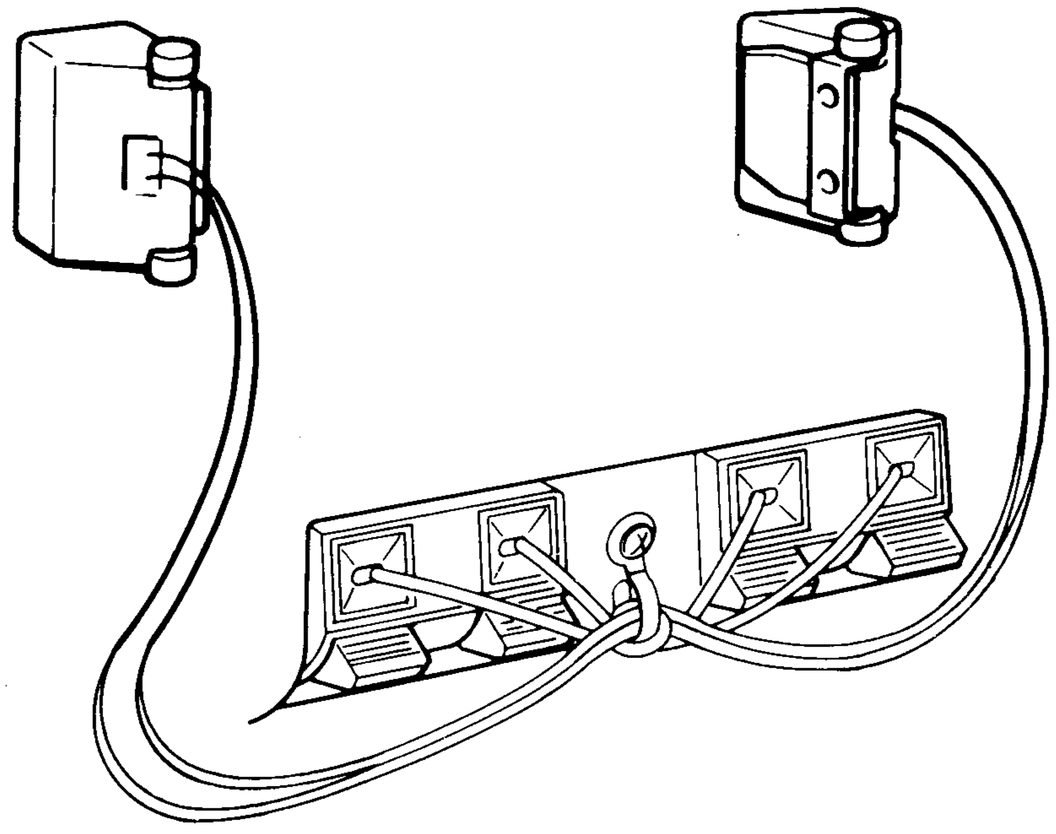
Mount the right and left speakers on the unit.





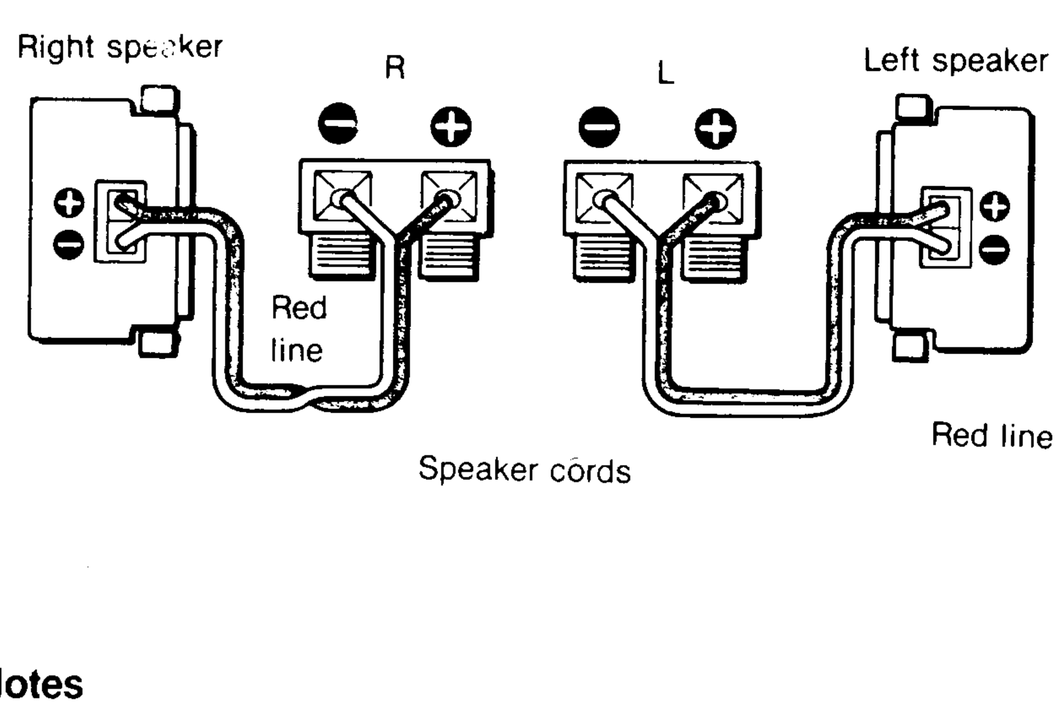
While pressing the button, insert the stripped wire tip into the hole and release the button.
Slightly pull the wire to check that it is securely connected.

Securing the speaker cords
Hook the cords as illustrated so that slacks of the cord are not found from the front view.



Angle adjustment
Turn the knobs on the top and bottom of the speaker counterclockwise, adjust the speaker position to the desired angle, and turn the knobs clockwise.

Connections



Notes
- Connect speaker cords with red lines to the + terminals.
- Putting the speakers on the unit for listening is not recommended.

1-4. REGISTRATION ADJUSTMENT

When the red, green and blue lines are not superimposed (the cross is not seen as white), perform the registration adjustment yourself. Should the difficulty persist, contact your Sony dealer.

Follow steps **1** through **6**.

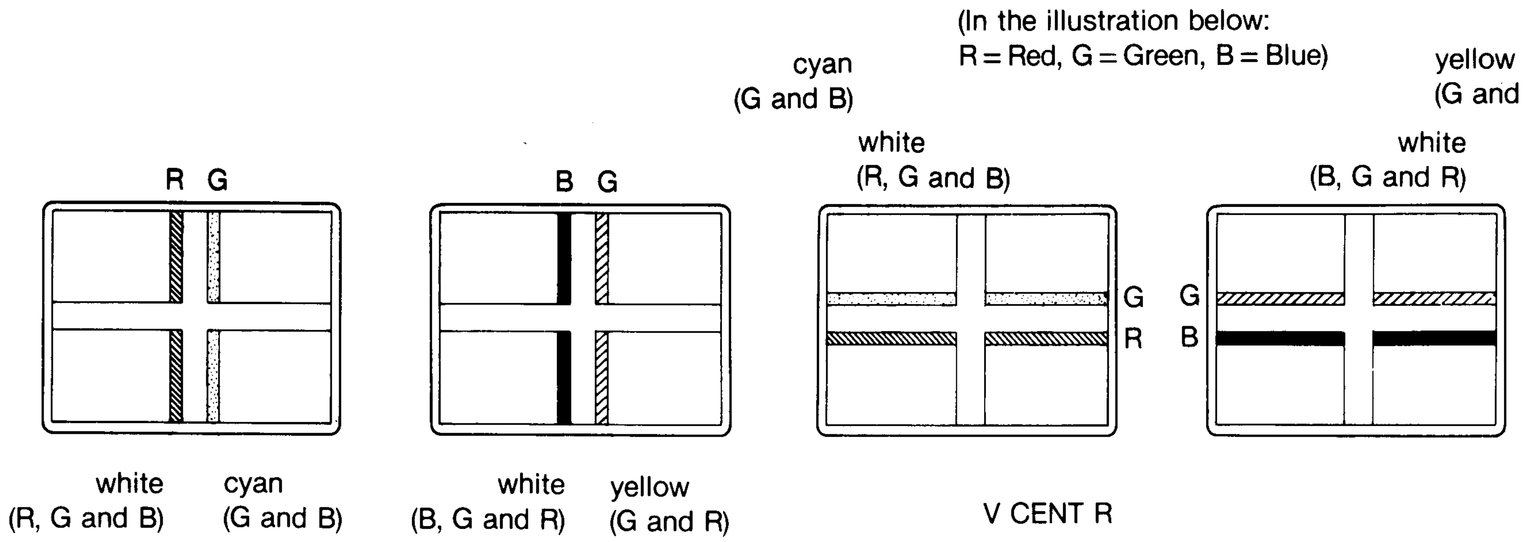
1 Press POWER to turn on the unit.

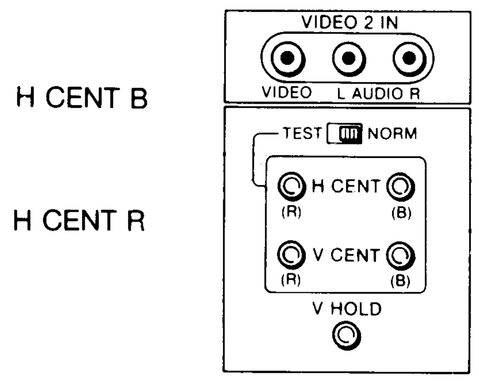
2 Open the registration panel and set the NORM/TEST selector to TEST. A built-in test pattern will be displayed on the screen.

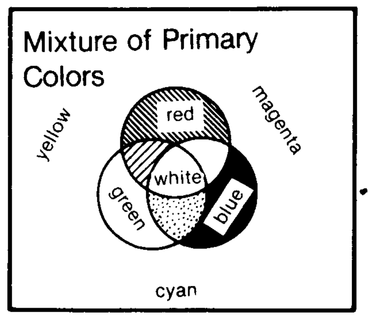
3 Adjust the H CENT(B) and H CENT(R) controls to converge the blue and red vertical lines with the green line.

4 Adjust the V CENT(B) and V CENT(R) controls to converge the blue and red horizontal lines with the green line.

(In the illustration below:
R = Red, G = Green, B = Blue)







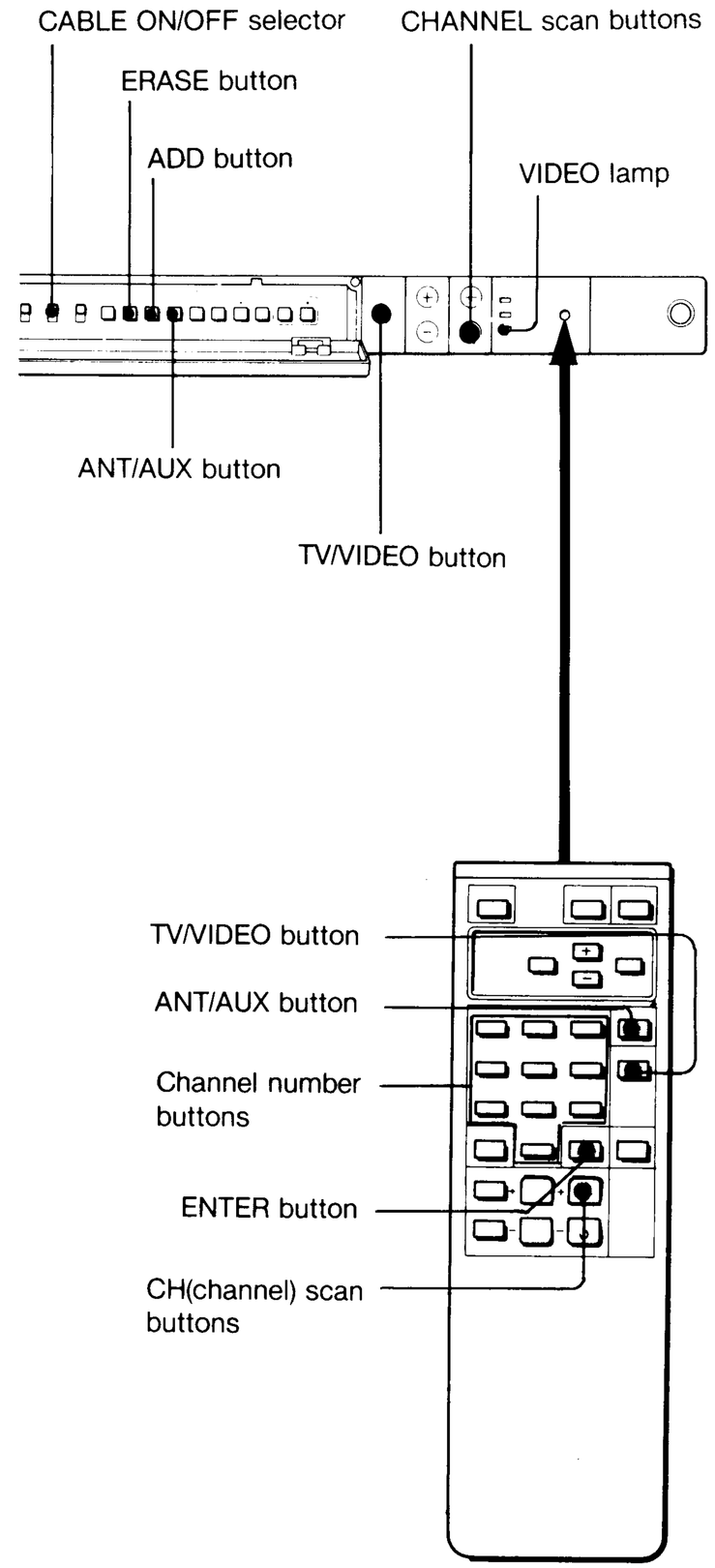
As you turn the controls clockwise, the lines move in the direction indicated in the illustrations. To move the lines in the opposite direction, turn the controls counterclockwise.

5 Repeat steps **3** and **4** until the cross appears white.

6 After the adjustment is completed, set the NORM/TEST selector to NORM.

1-5. PRESETTING CHANNELS. .

Receivable channels of your set are:
VHF: 2–13
UHF: 14–69
CATV: 1–125
By adding and erasing channels, you can preset your set so that only the desired channels appear in sequence when the CHANNEL +/– are pressed.



Preparation

1 Turn on the set.

2 Make sure the following are properly set.
The on-screen display (VIDEO 1/2/3 or EXT-A) and VIDEO lamp should be off. (Press TV/VIDEO button as many time as necessary until they go out.)

3 According to the channel to be added or erased, check the following and make the necessary changes if any.
- CABLE ON/OFF selector:
  For VHF and UHF channels, set to OFF.
  For cable TV channels, set to ON.
- On-screen "AUX" indication
  (Press ANT/AUX button as necessary.)
  For VHF, UHF and regular cable TV channels, the indication should be off.
  For cable TV channels, the indication should be displayed.

ADDING CHANNELS

1 Select the channel to be added by pressing the channel number buttons and then ENTER.

2 Press ADD.
A "+" indication will appear on the left of the channel display on the screen.

Repeat steps **1** and **2** for other channels to be added.

ERASING CHANNELS

1 Select the channel to be erased.

2 Press ERASE.
A "–" indication will appear on the left of the channel display on the screen.

Repeat steps **1** and **2** for other channels to be skipped over in the numerial sequence.

To add erased channels again, follow the steps in "ADDING CHANNELS".

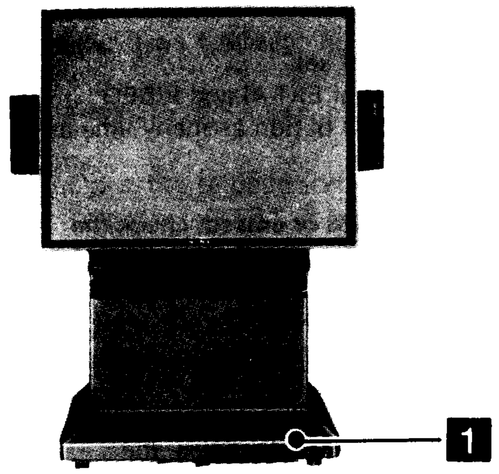
Note
If you erase a VHF or UHF channel , the cable TV channel with the same number will also be erased, and vice versa.

1-6. APPLICATIONS WITH OTHER OPTIONAL EQUIPMENT

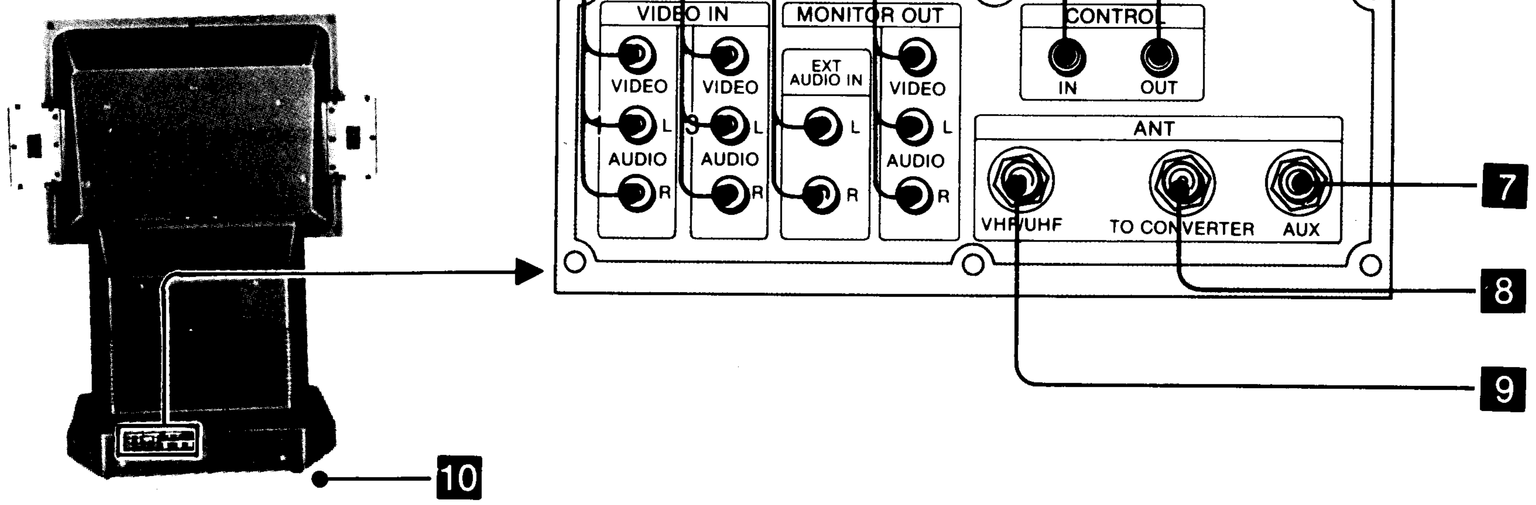
This unit is equipped with various input/output jacks and terminals for your desired equipment to be connected.

For details on the various optional connecting cables to be used, see "OPTIONAL AUDIO/VIDEO CONNECTING CABLES" on next page.

Front



Rear



1 VIDEO 2 IN (input) jacks
Connect to the video and audio output jacks of a video cassette recorder or microcomputer.

2 VIDEO 1 IN jacks
3 VIDEO 3 IN jacks
Connect to the video and audio output jacks of a VCR*, video disc player, etc.

- ◎ VIDEO jack (phono, yellow) → to video output jack
- ◎ AUDIO L jack (phono, white) → to audio L (left channel) output jack
- ◎ AUDIO R jack (phono, red) → to audio R (right channel) output jack

*You will achieve better picture and sound quality than by connecting the VCR only to the antenna terminal.

4 EXT AUDIO IN (L/R) jacks
An external audio source can be connected to these jacks to be combined with the picture of the selected TV program. Connect to the audio/line output of the audio source.

5 MONITOR OUTPUT jacks (phono type)
Connect to the video and audio input jacks of a video cassette recorder or color monitor. Either the TV or VCR signal selected by the TV/VIDEO button is supplied. To record only the sound, connect the audio input jacks of a tape recorder to the AUDIO L and R jacks with a connecting cable such as the optional RK-74A.

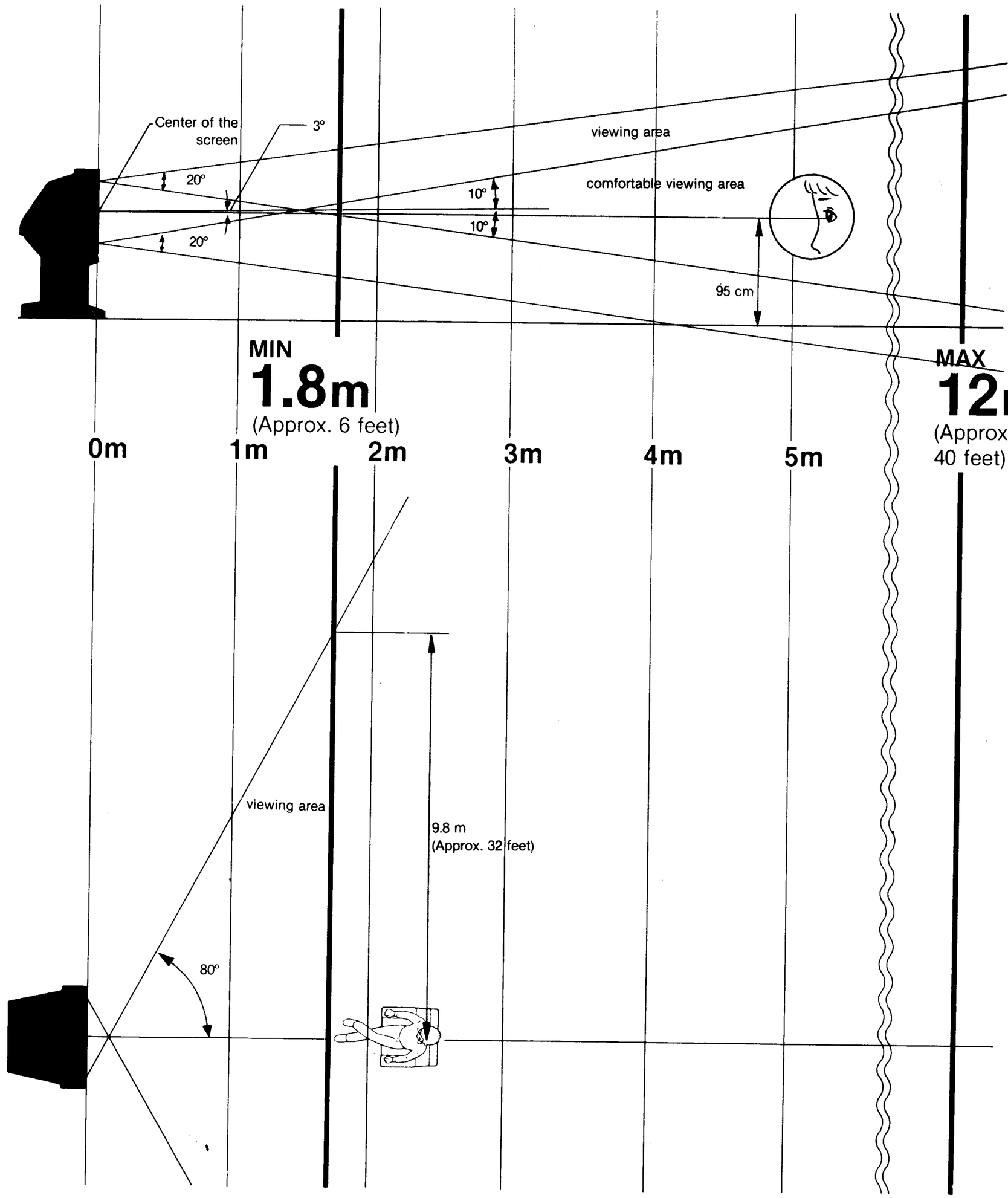
6 CONTROL IN/OUT jacks (mini type)
These jacks are for connecting a future audio or video product also equipped with similar CONTROL IN or OUT jacks for the expansion of your audio-video system.

7 AUX (auxiliary) terminal
8 TO CONVERTER terminal
9 VHF/UHF ANT terminal

10 AC power cord

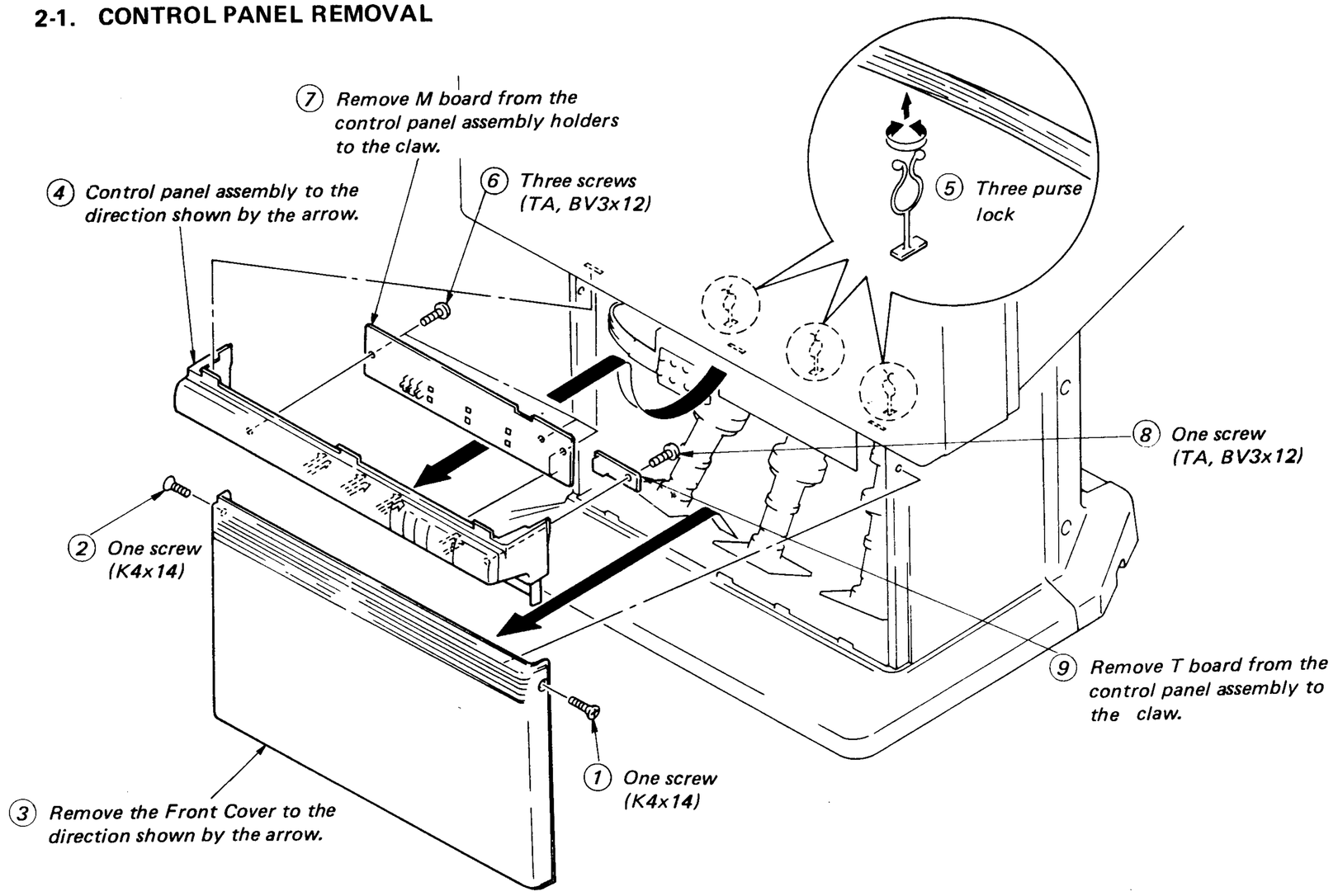
KPR-36XBR
RM-736/APM-X4

1-7. NOTICE ON AUDIENCE AREA .

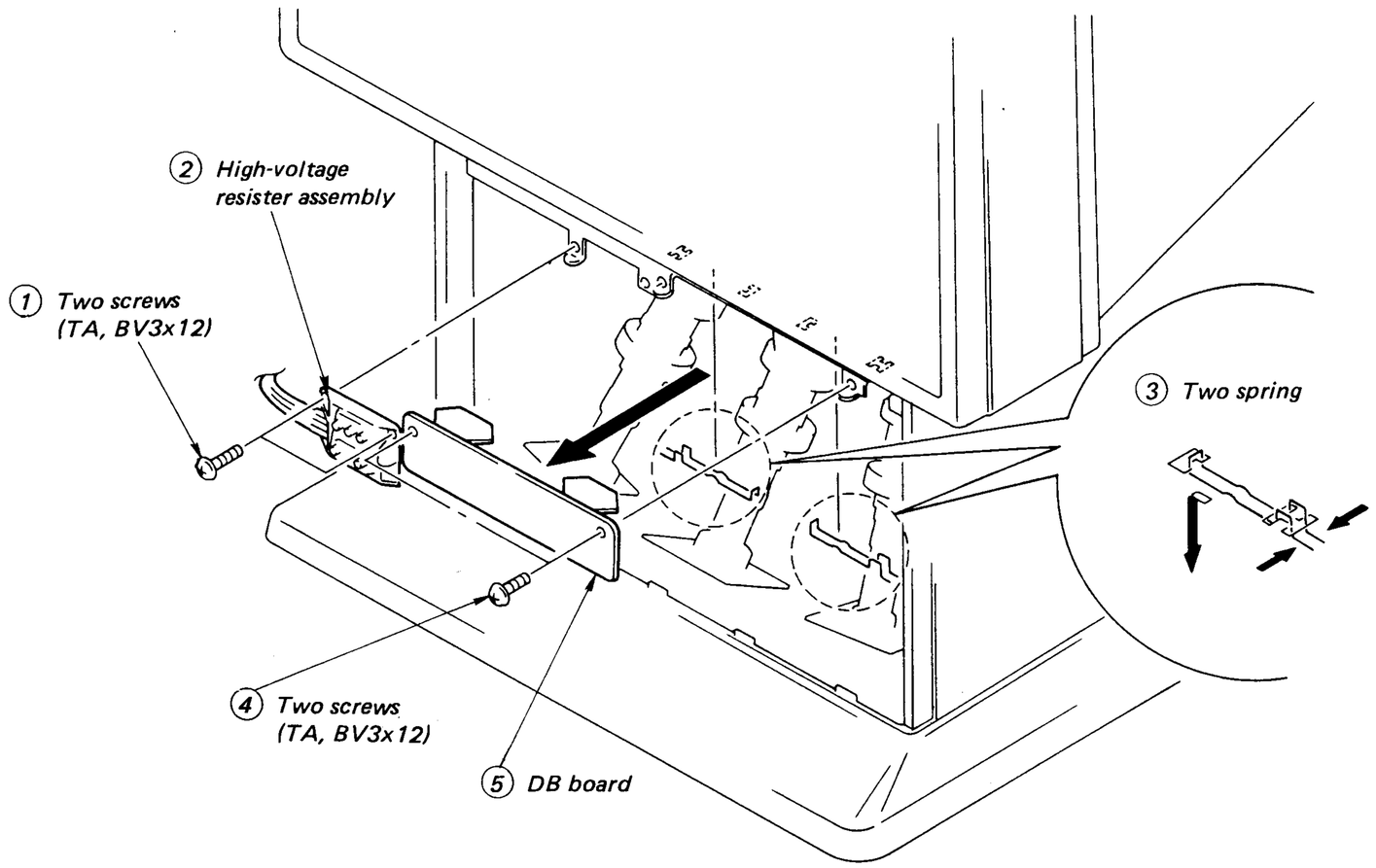


SECTION 2
DISASSEMBLY

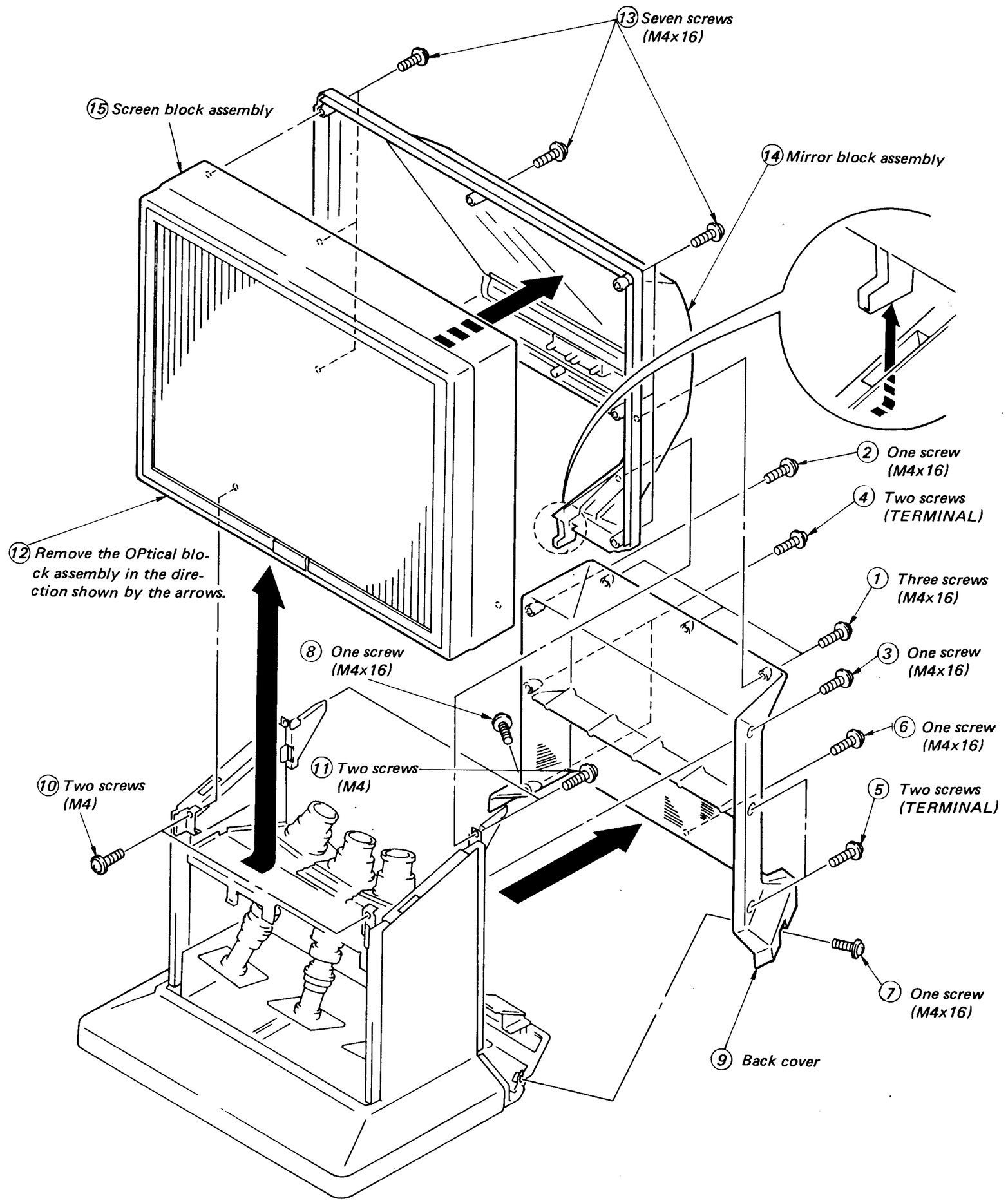
2-1. CONTROL PANEL REMOVAL


7 Remove M board from the control panel assembly holders to the claw.
4 Control panel assembly to the direction shown by the arrow.
6 Three screws (TA, BV3x12)
5 Three purse lock
8 One screw (TA, BV3x12)
2 One screw (K4x14)
9 Remove T board from the control panel assembly to the claw.
1 One screw (K4x14)
3 Remove the Front Cover to the direction shown by the arrow.

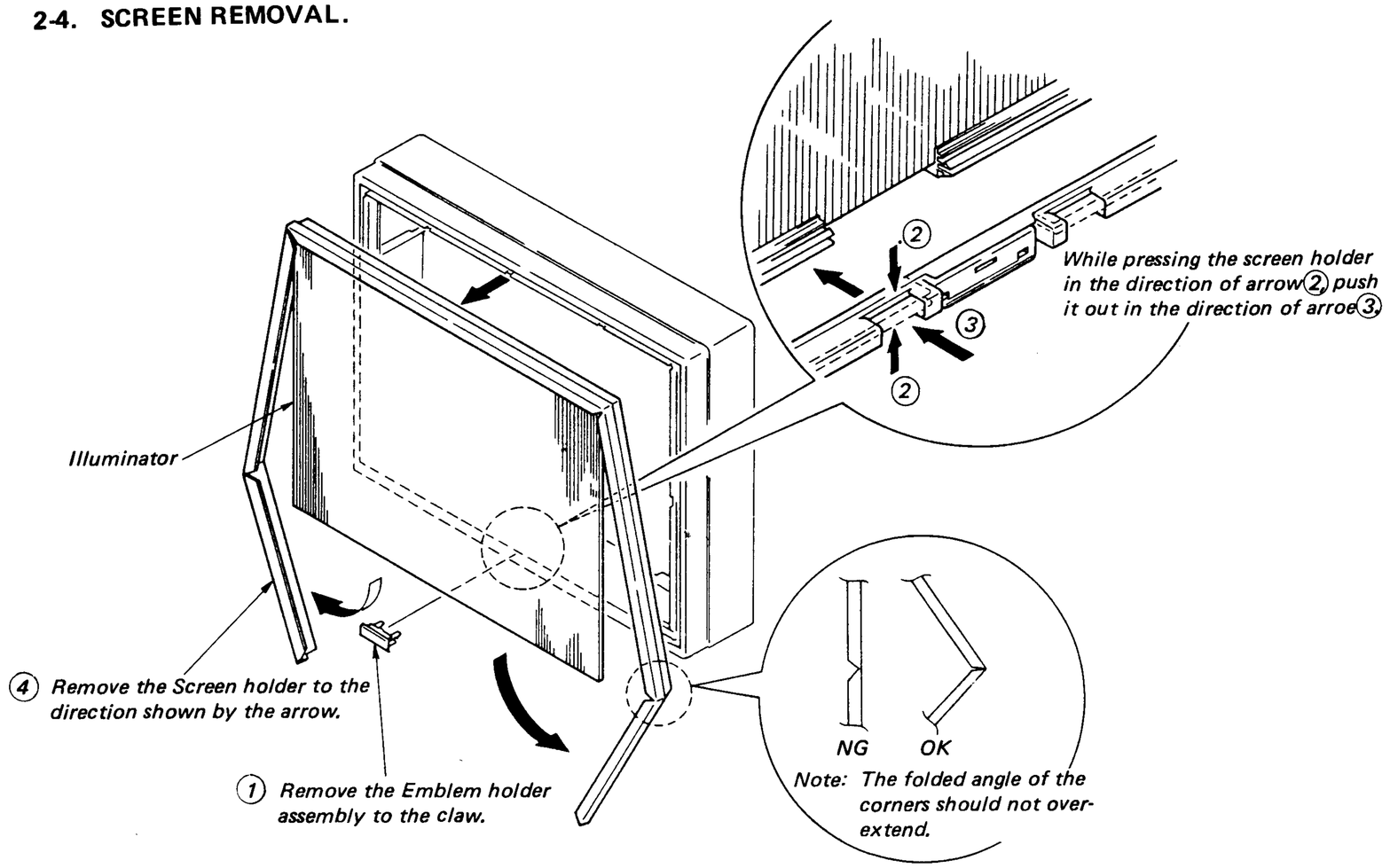
2-2. DB BOARD REMOVAL



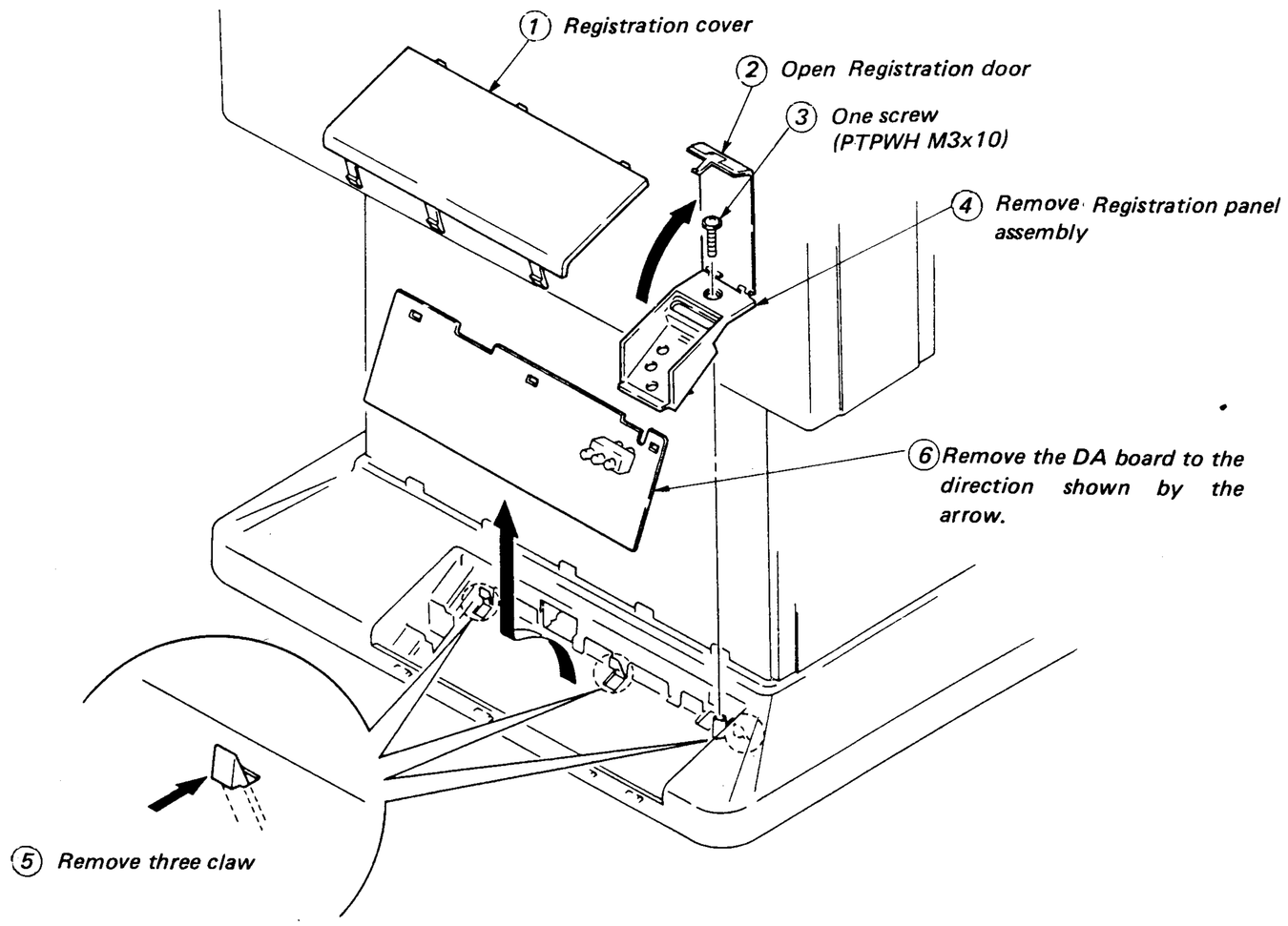
2-3. OPTICAL BLOCK ASSEMBLY, BACK COVER REMOVAL


13 Seven screws (M4x16)
15 Screen block assembly
14 Mirror block assembly
2 One screw (M4x16)
4 Two screws (TERMINAL)
12 Remove the OPtical block assembly in the direction shown by the arrows.
1 Three screws (M4x16)
8 One screw (M4x16)
3 One screw (M4x16)
6 One screw (M4x16)
11 Two screws (M4)
10 Two screws (M4)
5 Two screws (TERMINAL)
7 One screw (M4x16)
9 Back cover

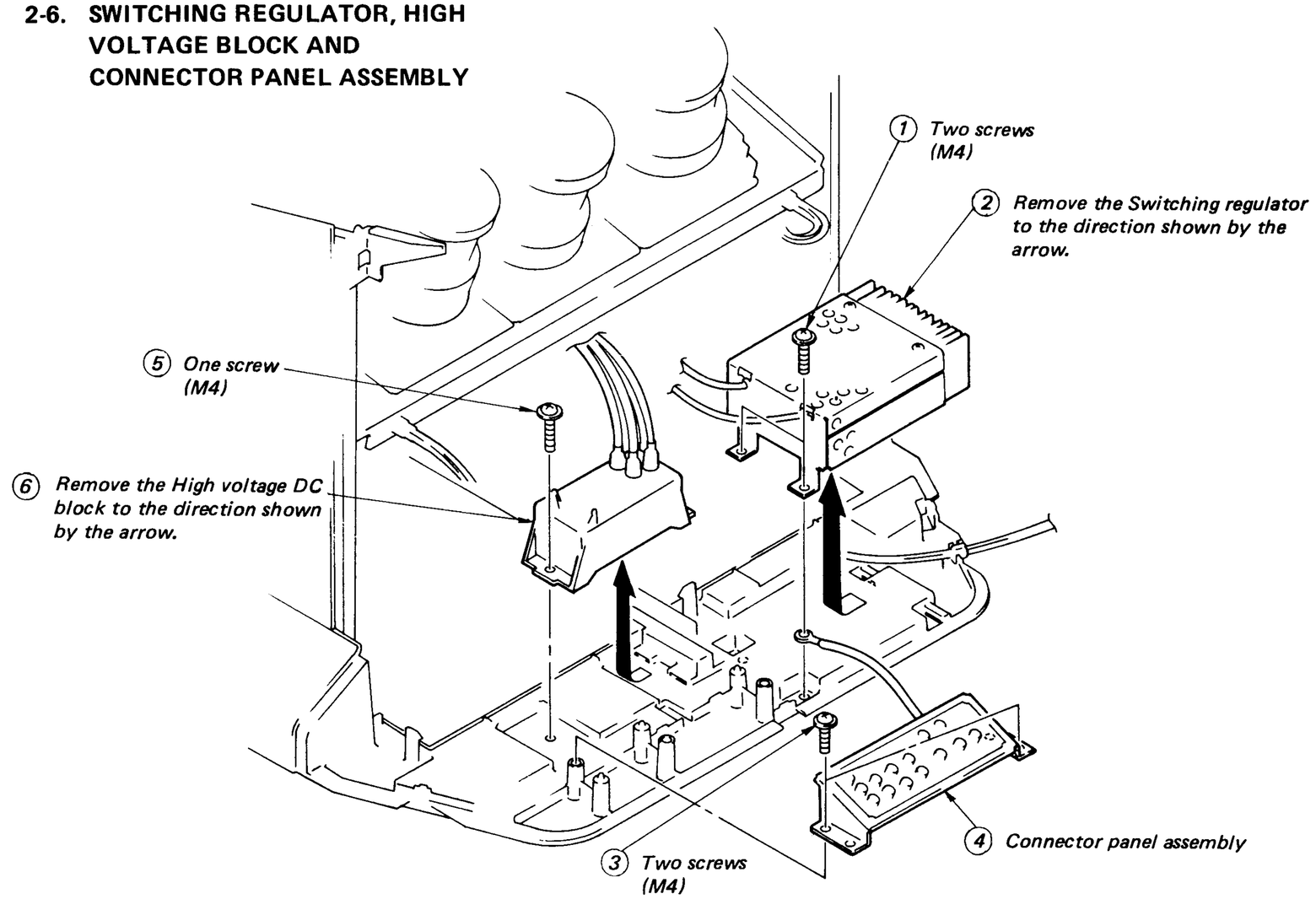
2-4. SCREEN REMOVAL.


While pressing the screen holder in the direction of arrow (2) push it out in the direction of arrow (3).
Illuminator
(4) Remove the Screen holder to the direction shown by the arrow.
(1) Remove the Emblem holder assembly to the claw.
NG
OK
Note: The folded angle of the corners should not over-extend.

2-5. DA BOARD REMOVAL

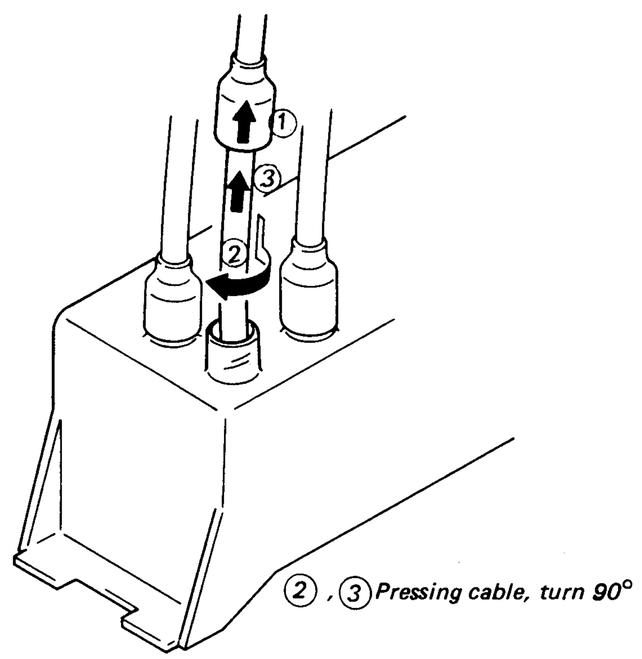

(1) Registration cover
(2) Open Registration door
(3) One screw (PTPWH M3x10)
(4) Remove Registration panel assembly
(6) Remove the DA board to the direction shown by the arrow.
(5) Remove three claw

2-6. SWITCHING REGULATOR, HIGH VOLTAGE BLOCK AND CONNECTOR PANEL ASSEMBLY

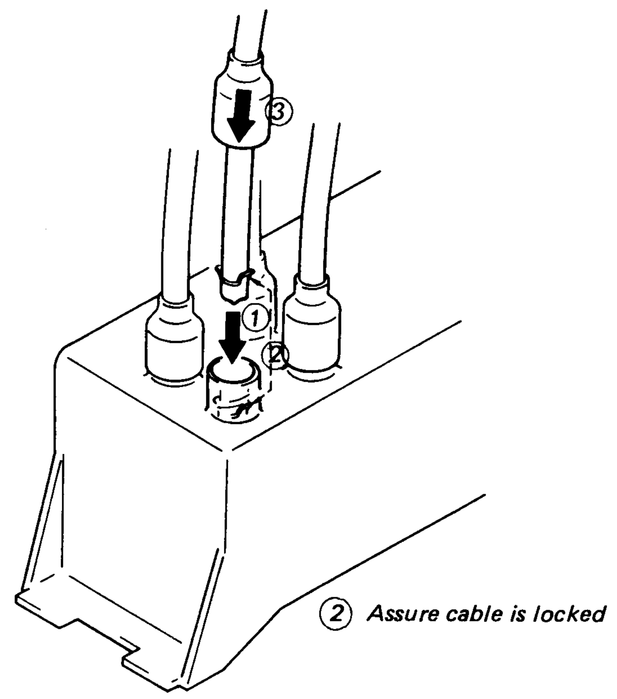

(1) Two screws (M4)
(2) Remove the Switching regulator to the direction shown by the arrow.
(5) One screw (M4)
(6) Remove the High voltage DC block to the direction shown by the arrow.
(3) Two screws (M4)
(4) Connector panel assembly

2-7. HIGH VOLTAGE CABLE INSTALLATION AND REMOVAL

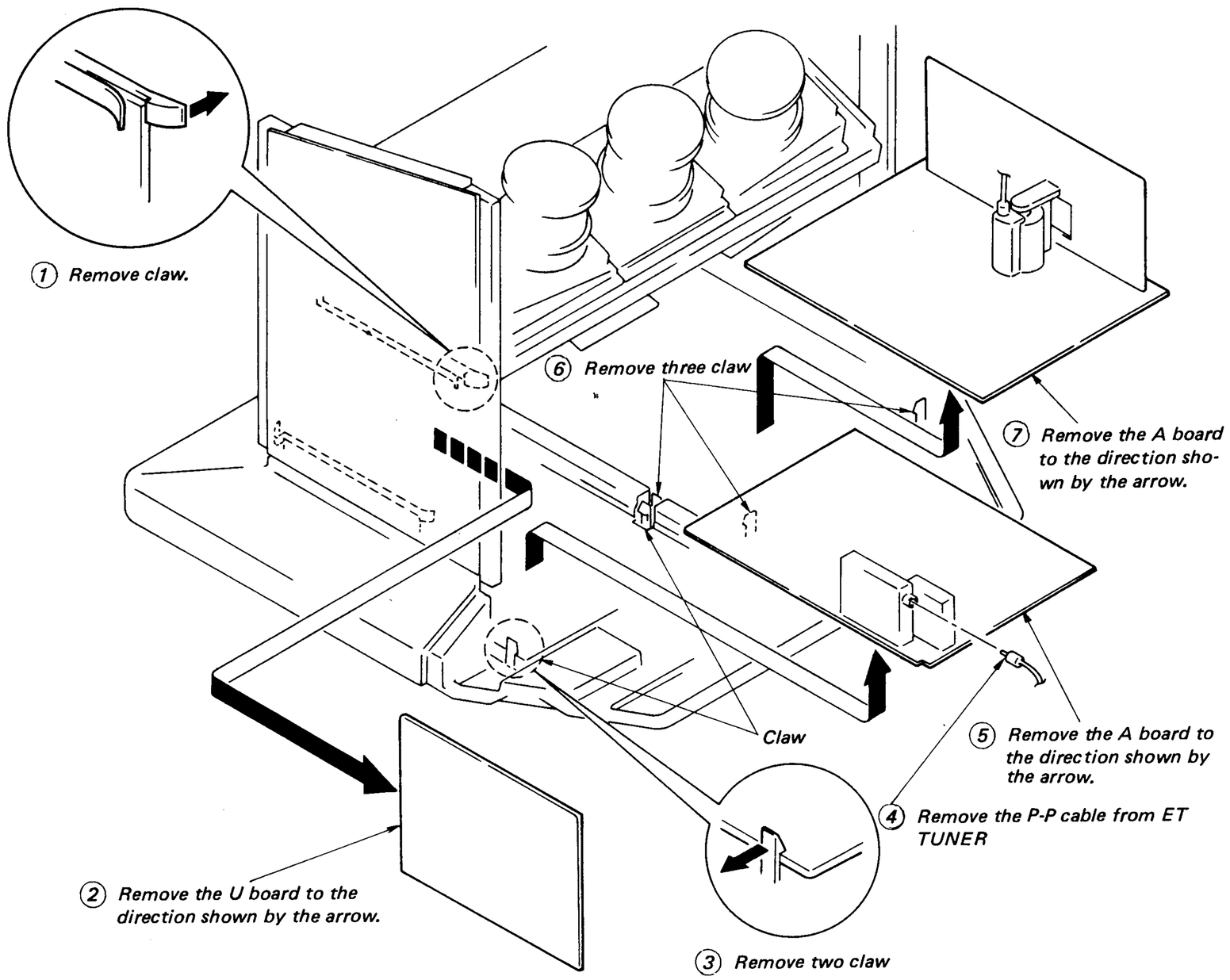
(1) Remover



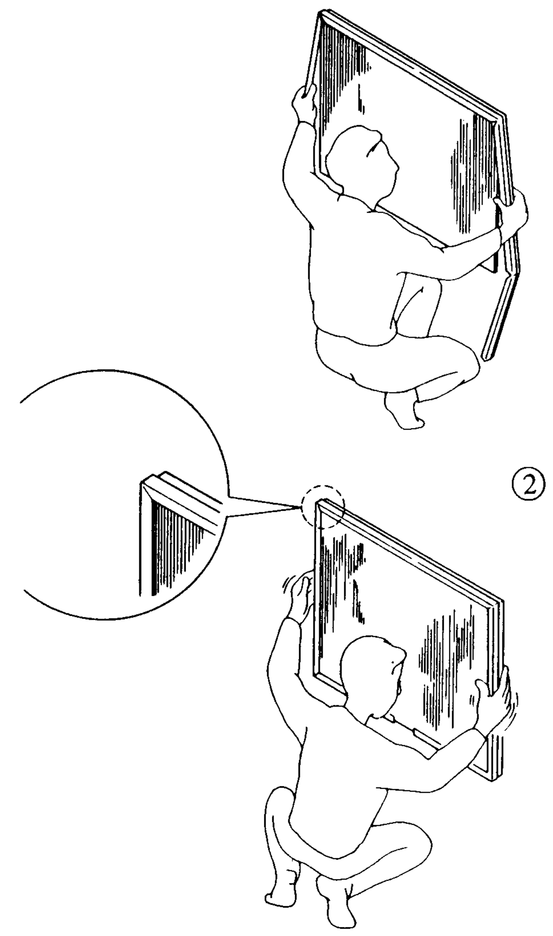
(2) Installation



2-8. U.E. AND A BOARD REMOVAL


① Remove claw.
⑥ Remove three claw
⑦ Remove the A board to the direction shown by the arrow.
Claw
⑤ Remove the A board to the direction shown by the arrow.
④ Remove the P-P cable from ET TUNER
② Remove the U board to the direction shown by the arrow.
③ Remove two claw

2-9. PRECAUTIONS WHEN REPLACING THE SCREEN



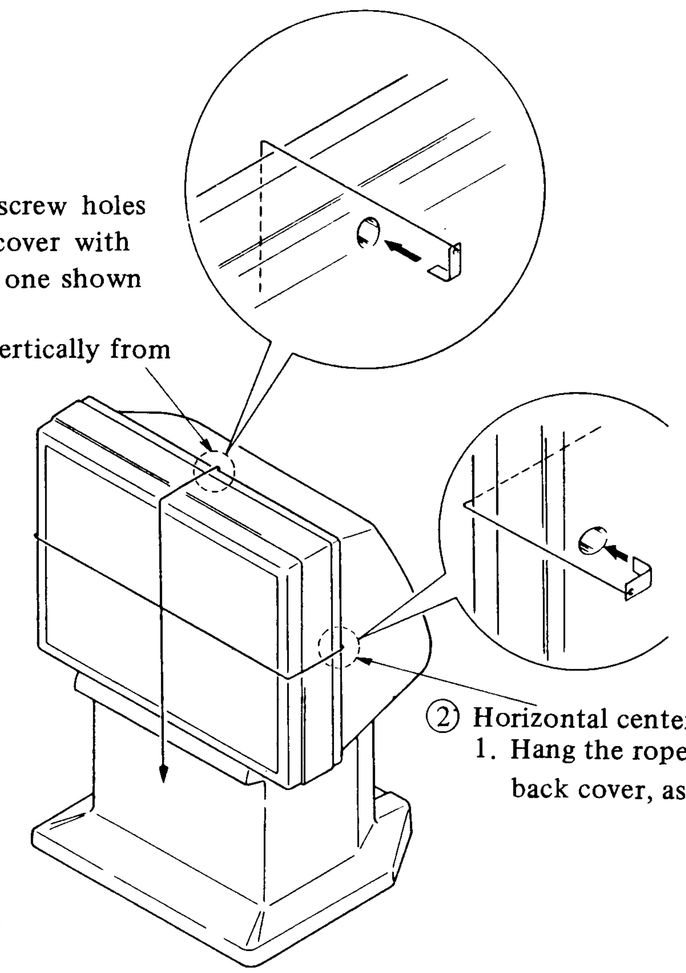
① When placing the screen holder, do not overextend it beyond the corners of the screen more than which is necessary, as the corners of the screen holder will be damaged.

② After replacing the screen, as shown in the figure, lightly tap the right and left side of the screen holder to close up any gaps. If there is a gap in the corners, luster (light) will escape from the screen, making it difficult to see the picture.

2-10. SCREEN CENTERING

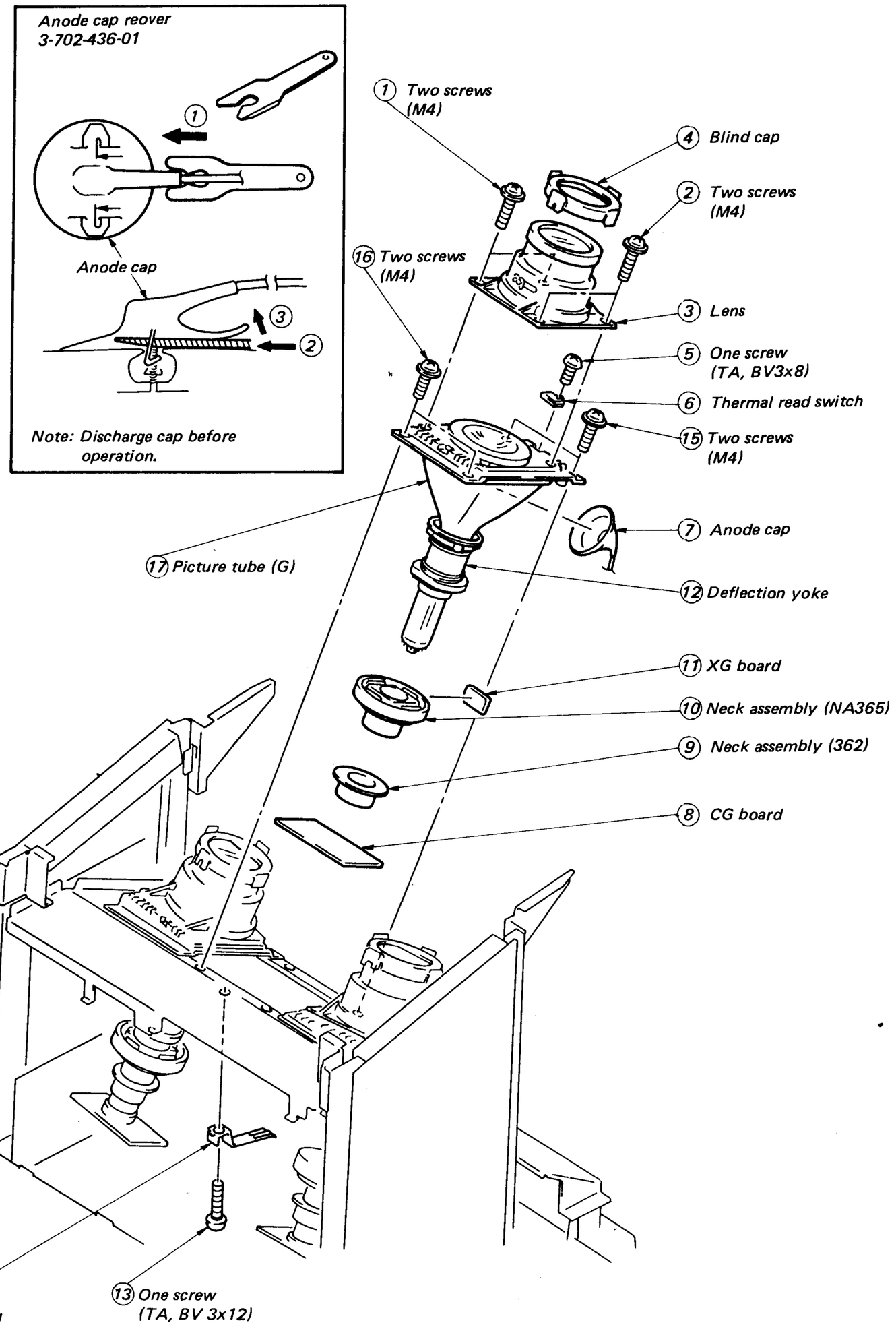
If three CRTs are replaced at the same time, follow the procedure below for screen centering.

① Vertical centering
1. Tie a rope in the screw holes of the set's back cover with a jig made like the one shown in the figure.
2. Let the rope hang vertically from the screw holes.



② Horizontal centering
1. Hang the rope on the right and left screw holes securing the back cover, as shown in the figure.

2-11. PICTURE TUBE REMOVAL.



SECTION 3
ADJUSTMENTS

3-1. SETUP ADJUSTMENTS

1-1-1. Adjustment of Defocus Magnet

1. Adjustment (blue) of Defocus Fourpoles Magnet

1. Receive all white signal.
2. Set PICTURE to maximum, and set BRIGHTNESS to 50%.
3. After adjusting the fourpoles magnet as shown in Fig. 1, adjust the Blue Focus VR of the focus pack to have the yellow ring similar to Fig. 2.
4. Rotate the fourpoles magnet to the erasing point of the yellow ring. (90° rotation)

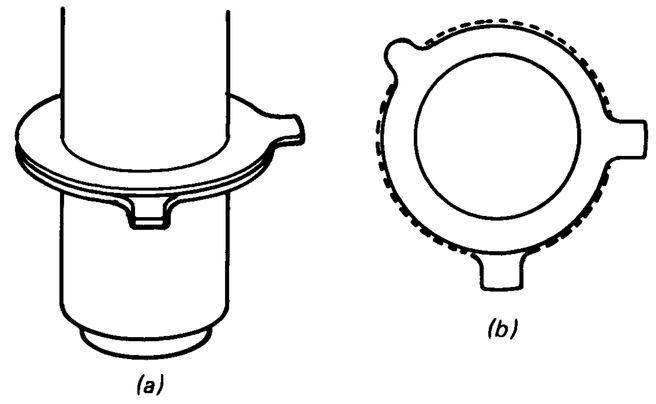


Fig. 1

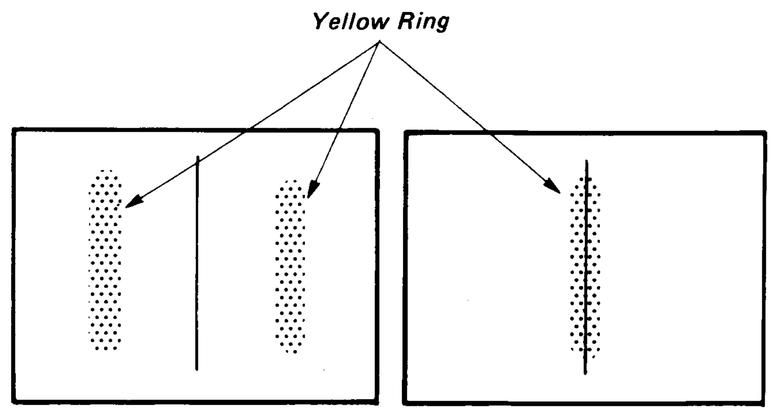


Fig.2

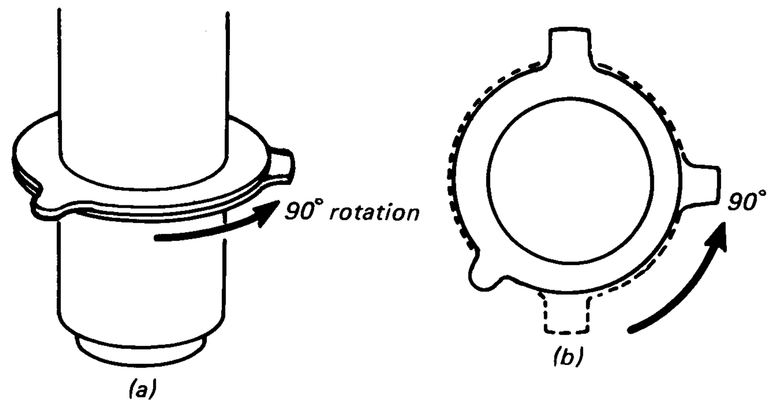


Fig.3

2. Adjustment (red, green) of fourpoles magnet spot adjustment

1. Dot signal is received.
2. Set PICTURE to maximum, and set BRIGHTNESS to 50%.
3. Rotate the Red Focus VR of the focus pack clockwise, and defocus the SPOT as shown in Fig. 4. (So it stands out in the center of the screen.)

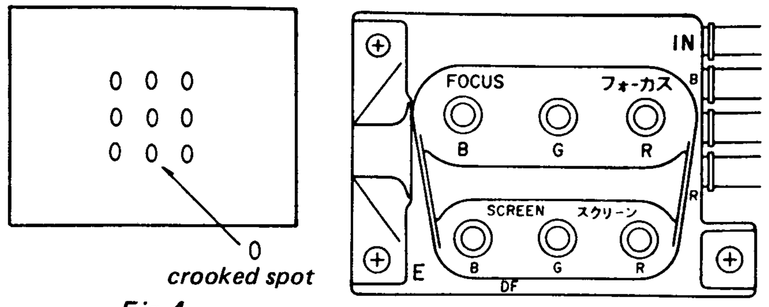


Fig.4

4. Make the SPOT round by adjusting the fourpoles magnet for SPOT adjustment. (See Fig. 5.)
   Note: Adjust the fourpoles magnet by closing and opening the upper and lower magnet layers while rotating it left and right to make the SPOT round.

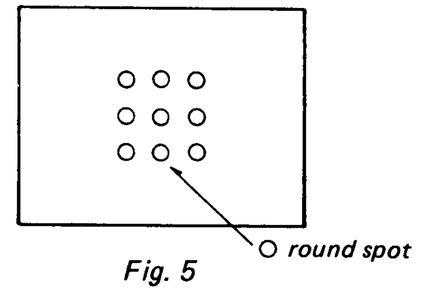


Fig. 5

5. After the SPOT becomes round, adjust the Red Focus VR of the focus pack to Just.
6. For green, repeat steps 3 to 5 in the same way.
7. Do paint lock.

1-1-2. FOCUS ADJUSTMENT

1. Check that VR of the DA Board (registration adjustment) and VR (CENT) are at the mechanical center.
2. Set the centering Mg mounted on the neck ass'y (RGB) to 0 magnetic field. (See Fig. 6.)

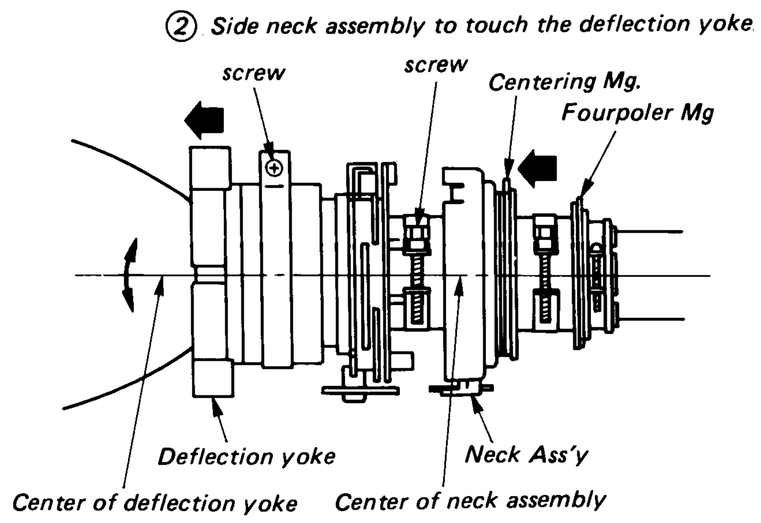
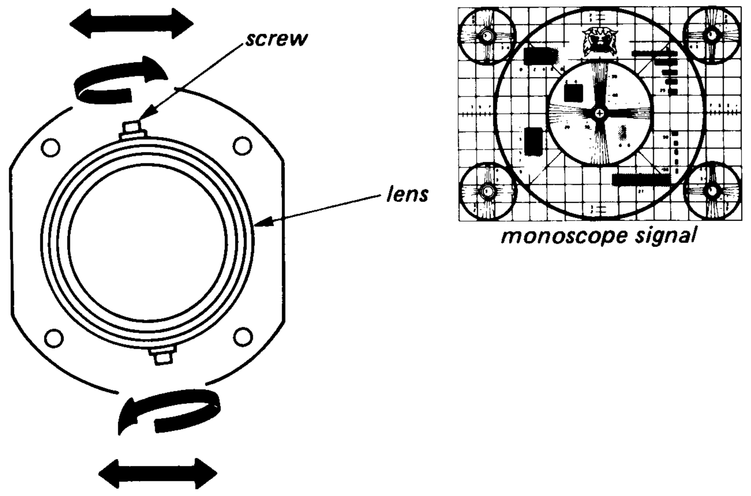
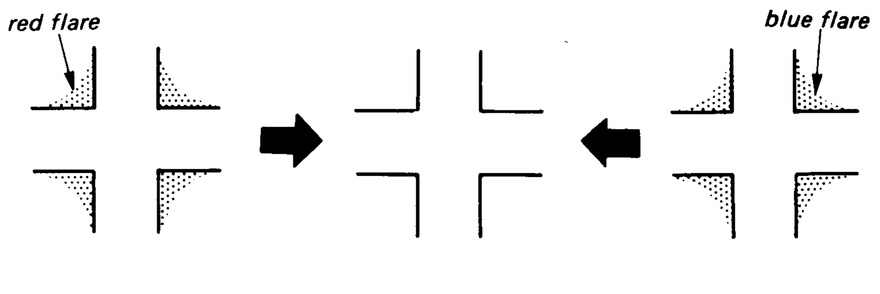


Fig. 6

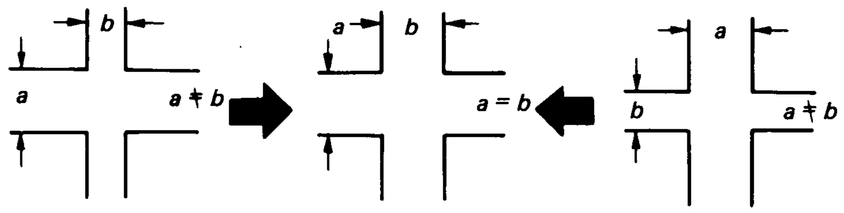
3. Input a monoscope signal and make rough adjustment of WB at BRT 50% and PIX 0%.
4. Set BRT and PIX maximum and change the TEST/NOR switch to TEST and HATCH/BAR select switch to HATCH to show cross hatch.
5. Cover a lens cap on the red and blue lenses and project green only.
6. Rotate the green lens and adjust to obtain the best lens focus.



monoscope signal



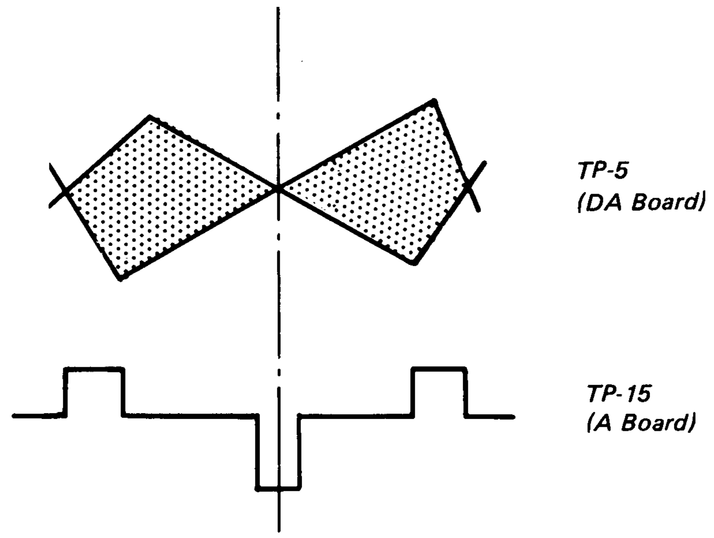
7. Rotate the GREEN FOCUS VR of the focus pack and adjust to obtain the best electric focus.



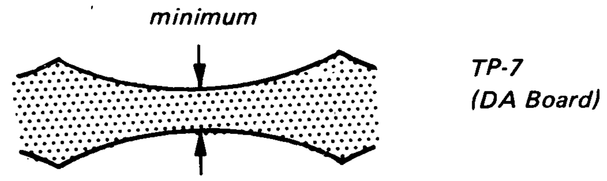
8. Repeat Steps 6. and 7, track, then adjust to obtain the best focus.
9. Tighten the green lens screw and fix the lens.
10. Adjust the red and blue focuses similarly.

3-1-3. REGISTRATION INITIAL SETTING

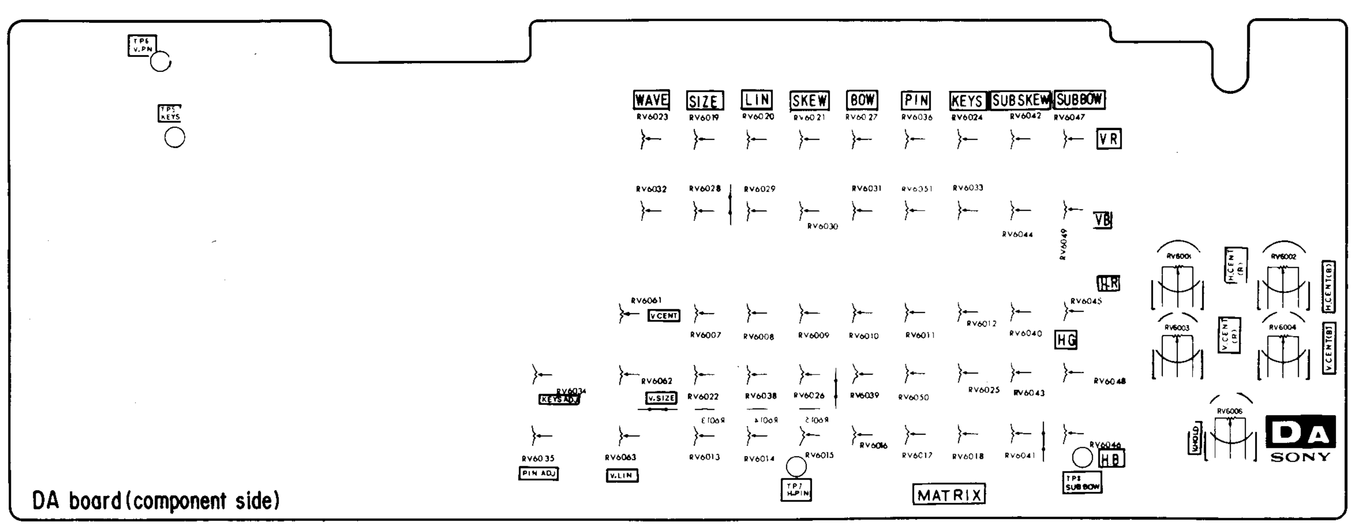
1. Set the TEST/NOR switch to TEST and HATCH /BAR switch to BAR (on the DA board).
2. Connect an oscilloscope to TP-5 (key waveform) on the DA Board and to TP-15 (G-OUT) on the A Board.
3. Rotate RV6034 on the DA Board to adjust the centers of the KEY and G-OUT waveforms to match.



4. Connect the oscilloscope to TP-7 (H, pin) on the DA Board and adjust RV6035 to minimize the amplitude at the center of the waveform.



5. RV6034 and RV6035 absolute should not be rotated hereafter.



DA board (component side)

3-1-4. GREEN PICTURE ADJUSTMENT

1. Input a monoscope signal.
2. Cover a lens cap on the red and blue lenses and project green only.
3. Adjust the green deflection yoke to make the monoscope horizontal center line horizontal, then fix the deflection yoke. Adjust the green neck ass'y to obtain a match with the green deflection yoke center and fix it. (See Fig. 7.)

① Slide deflection yoke forward as far as it will go.
② Side neck assembly to touch the deflection yoke.

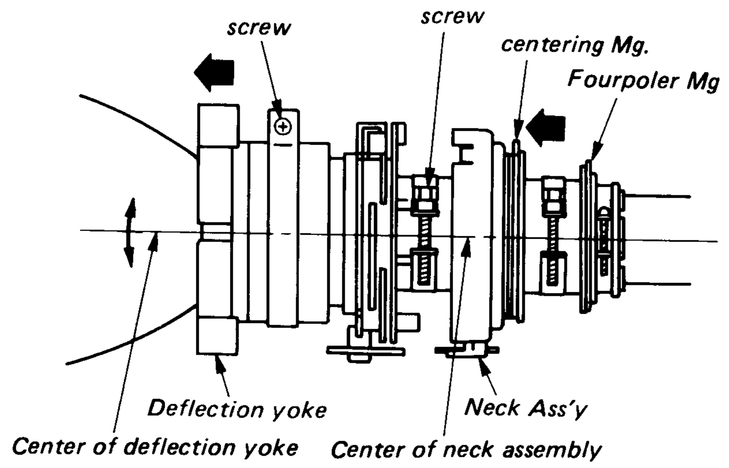
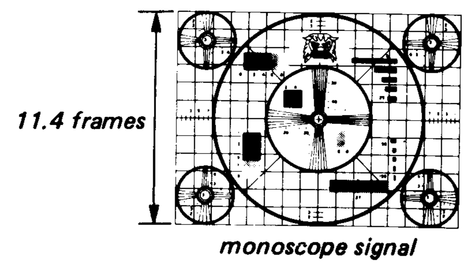
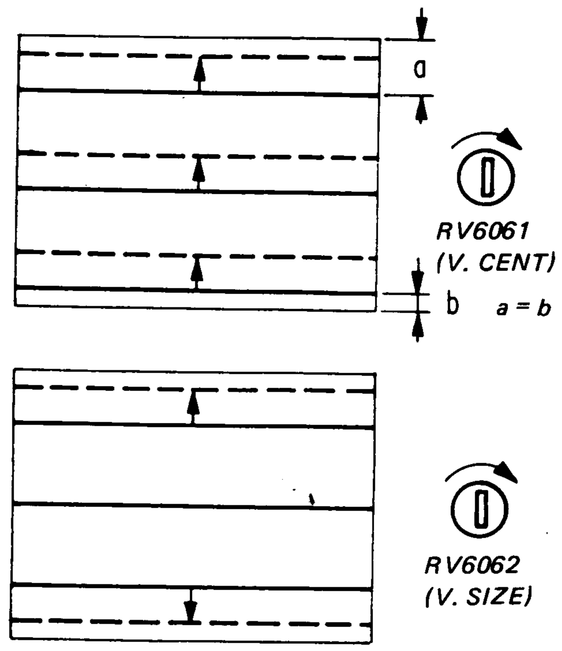


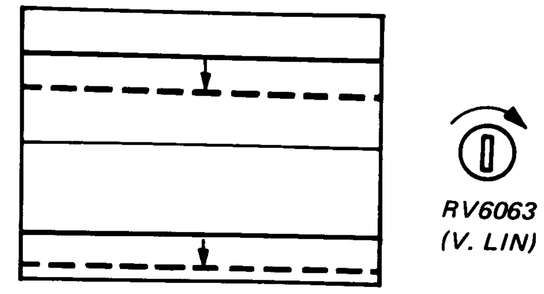
Fig. 7

4. Rotate RV6063 (V LIN) on the DA Board to obtain the best linearity in the V direction. Rotate RV6062 (V SIZE) to adjust the V size to 11.4 frames and rotate RV6061 (V CENT) to adjust the V center to the screen center.

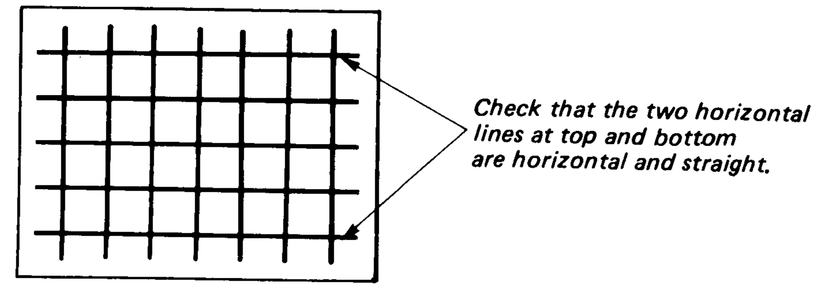


monoscope signal

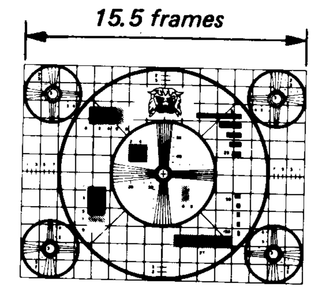




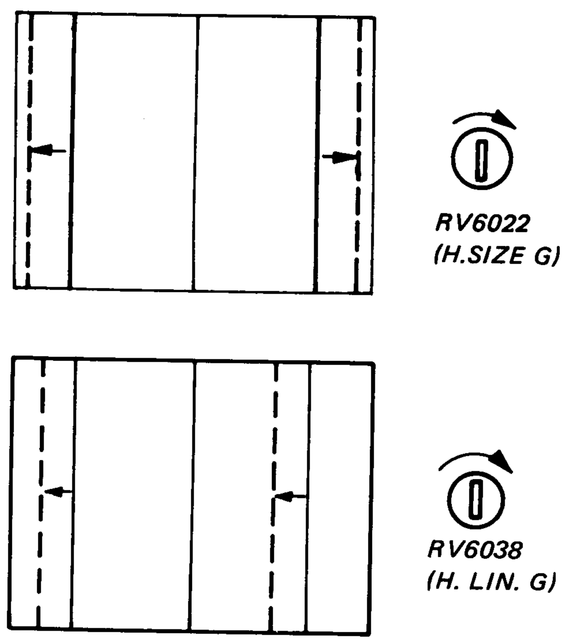
5. Check that the horizontal lines at the top and bottom edges of the monoscope hatch are horizontal and straight. (Adjust any distortion with the pin correction Mg mounted on the deflection yoke.)



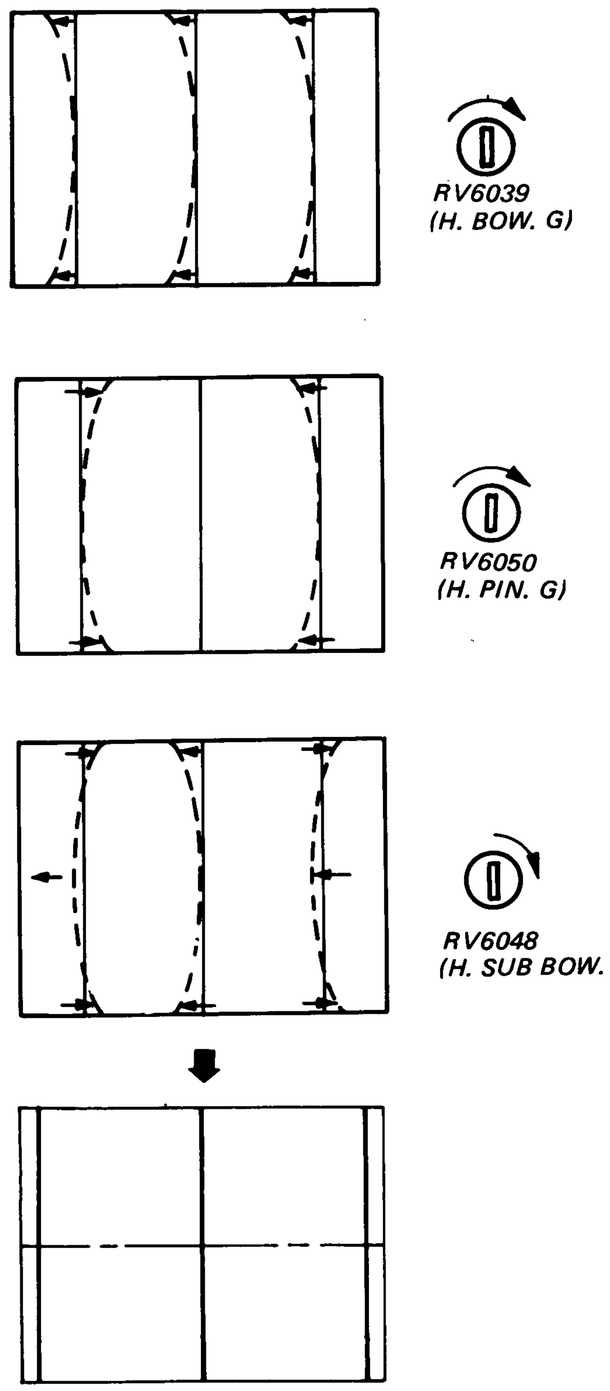
6. Rotate RV6038 (H LIN G) on the DA Board to obtain the best linearity in the H direction, rotate RV6022, (H.SIZE G) to adjust the H size to 15.5 frames, then match the H center to the screen with the Centering Mg of G DY.



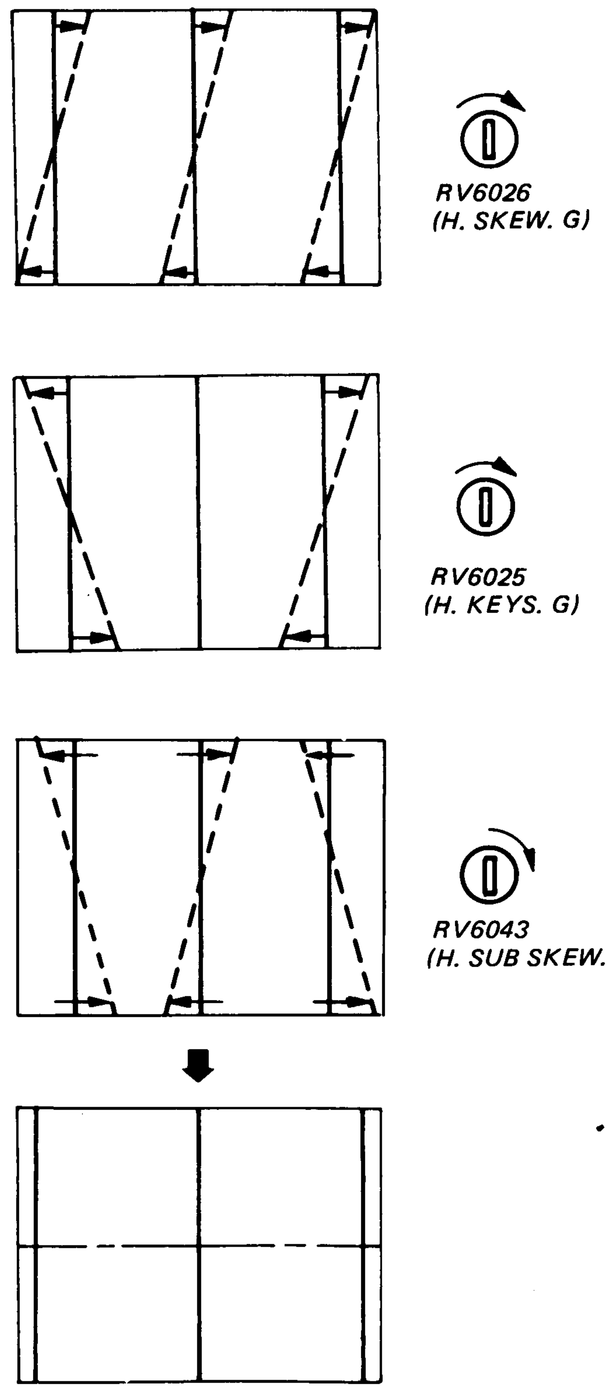
monoscope signal



7. Set the TEST/NOR selector switch to TEST and HATCH/BAR selector switch to HATCH.
Rotate RV6039 (H BOW G), RV6050 (H PIN G), and RV6048 (H SUB BOW G) to adjust as shown below.

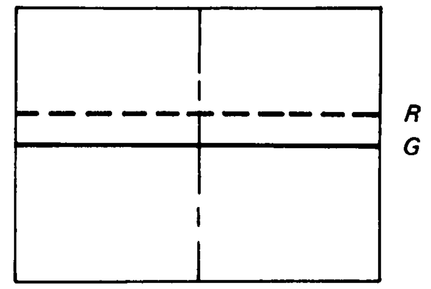


8. Correct tilting of the vertical center line using RV6026 (H SKEW G) and make the line perpendicular.
Rotate RV6025 (H KEYS G) to correct the tilting at both left and right edges to be in the same direction and in the same quantity. Rotate RV6043 (H SUB SKEW G) to correct the tilting of the left, right, and center vertical lines to be in the same direction and same quantity.
Rerotate RV6026 (H SKEW G) to eliminate tilting of all the vertical lines.



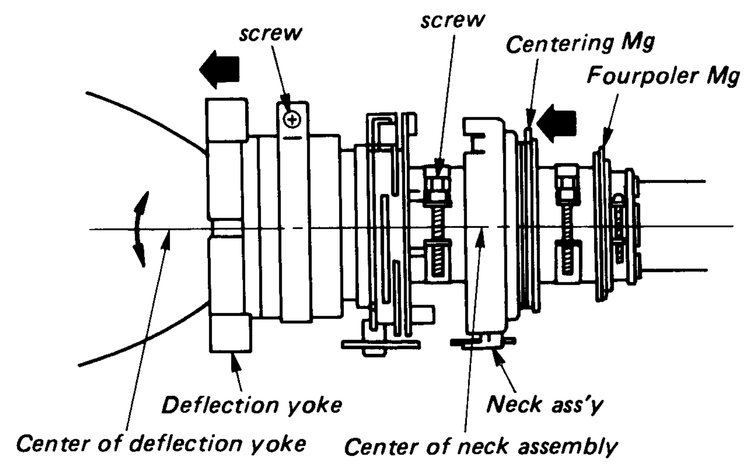
3-1-5. GREEN AND RED VERTICAL REGISTRATION

1. Cover a lens cap on the blue lens and receive a monoscope signal.
2. Operate the CENT MG of the red DY to match the red monoscope center nearly to the center of the green monoscope.
3. Set the TEST/NOR select switch to TEST and HATCH/BAR to HATCH, rotate the red DY so that the horizontal center lines of grenn and red match, then fix the red DY.

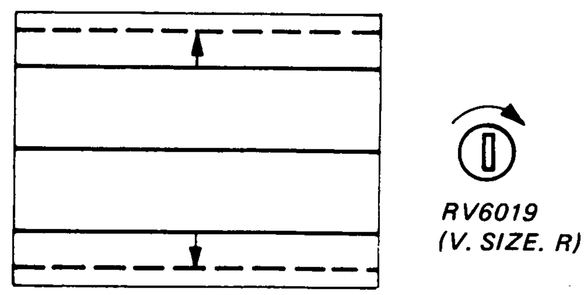


4. Align the red neck ass'y center to the red DY center and fix.

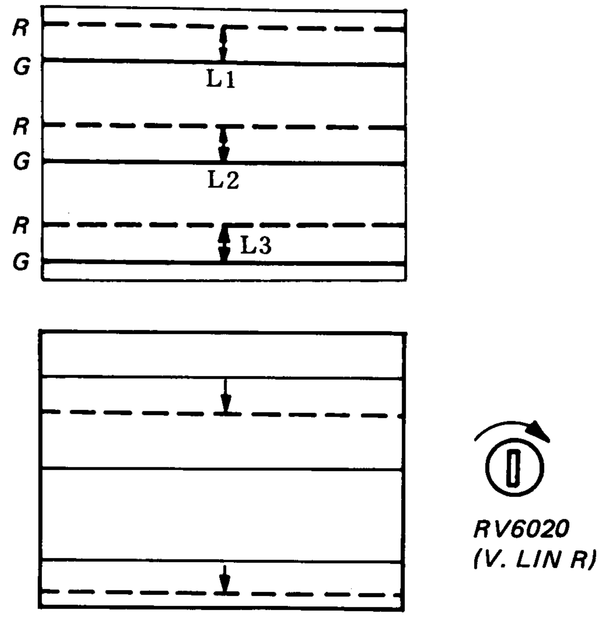
① Slide deflection yoke forward as far as it will go.
② Side neck assembly to touch the deflection yoke.



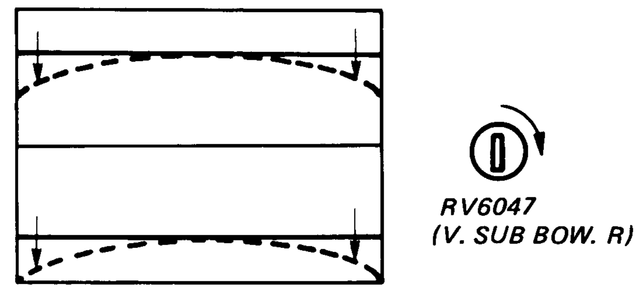
5. Rotate RV6019 (V SIZE R) on the DA Board to slightly reduce the vertical width of the picture.



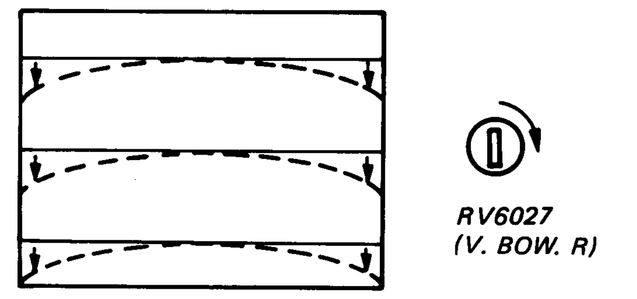
6. Rotate RV6020 (V LIN R) on the DA Board to equalize the slip quantities of the red and green horizontal lines.



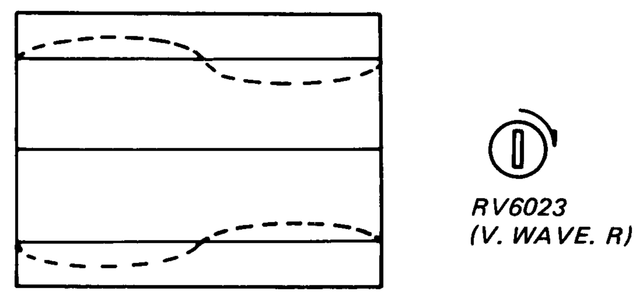
7. Align the red and green horizontal lines with the Centering Mg.
8. Rotate RV6047 (V SUB BOW R) on the DA Board to adjust the red horizontal lines in the same direction and quantity relative to the green horizontal lines. (Top and bottom edges.)



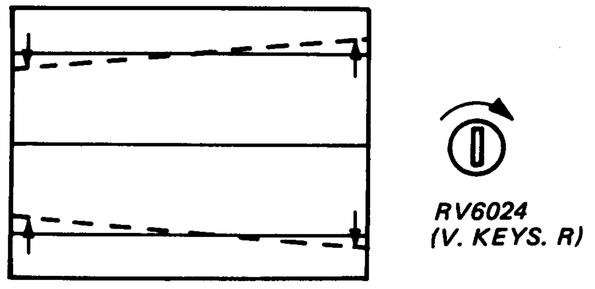
9. Rotate RV6027 (V BOW R) on the DA Board to overlap the green and red horizontal lines.



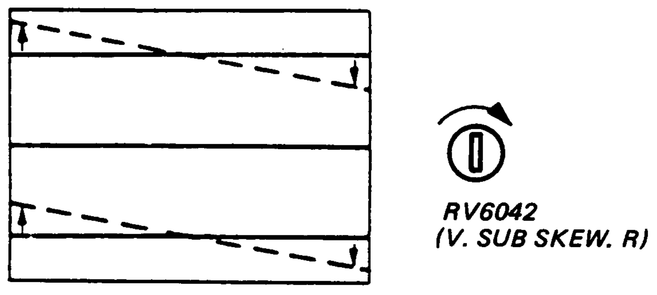
10) Rotate RV6023 (V WAVE R) on the DA Board to overlap the green and red horizontal lines.



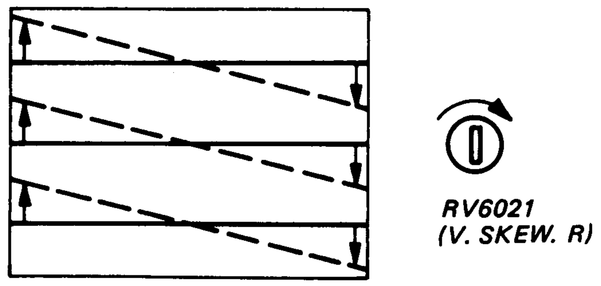
11. Rotate RV6024 (V KEYS R) on the DA Board to adjust tilting of the red horizontal lines relative to the green horizontal lines at the top and bottom edges.



12. Rotate RV6042 (V SUB SKEW R) to equalize the tilting of the red horizontal lines relative to the green horizontal lines in top, bottom, and center.



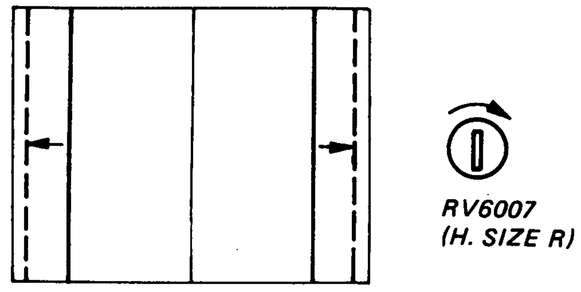
13. Rotate RV6021 (V SKEW R) to make the red horizontal lines parallel to the green horizontal lines.



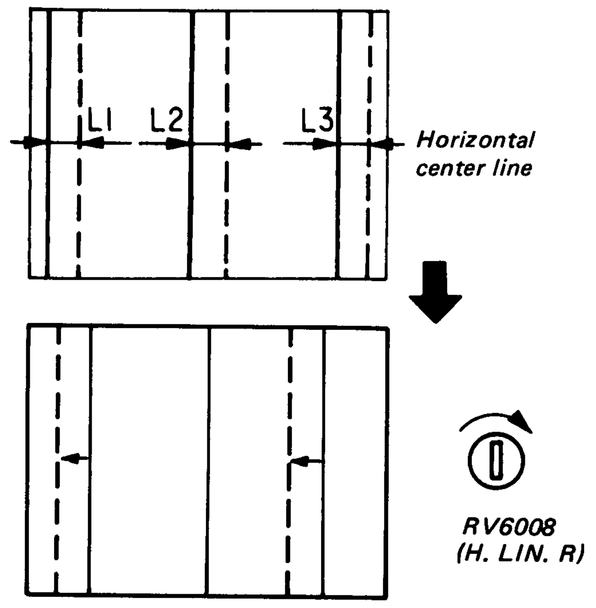
14. Repeat Steps 5, 6, and 7.
If the horizontal lines at the top and bottom edges do not align after trying, make a fine adjustment using the pin correction Mg mounted on the red DY.

3-1-6. GREEN AND RED HORIZONTAL REGISTRATION

1. Rotate RV6007 (H SIZE R) to slightly reduce the left and right widths of the picture.



2. Rotate RV6008 (H LIN R) to equalize the slip quantities of the red ang green vertical lines.



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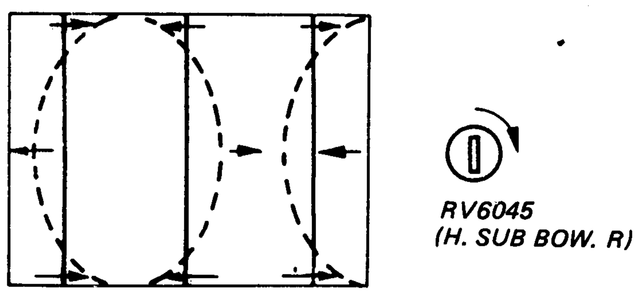
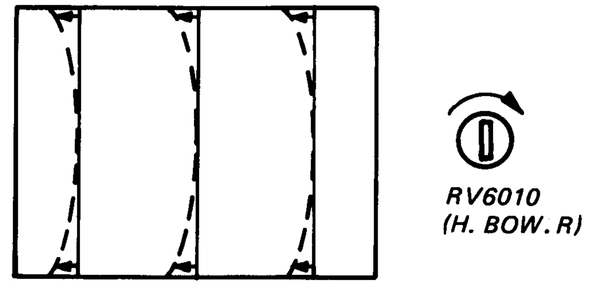
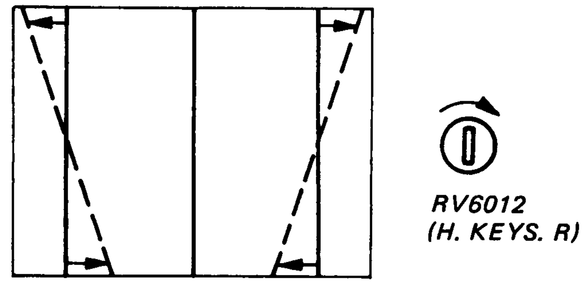
3. Align the red and green vertical lines using Centering Mg (R).
4. Rotate RV6045 (H SUB BOW R) to equalize the directions and quantities of the green and red vertical lines.



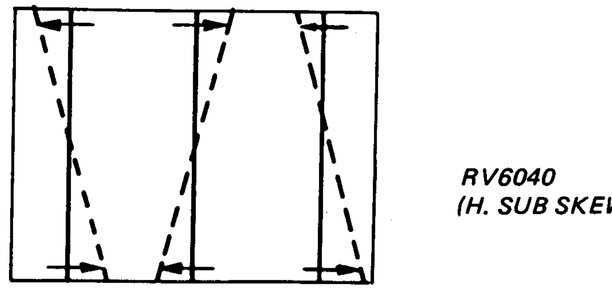
5. Rotate RV6010 (H BOW R) to overlap the green and red horizontal lines.



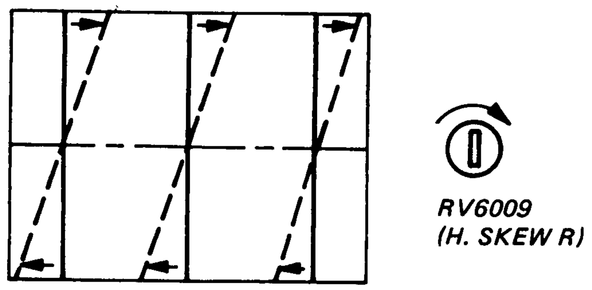
6. Rotate RV6012 (H KEYS R) to adjust tilting of the red vertical lines relative to the green vertical lines at left and right edges.



7. Rotate RV6040 (H SUB SKEW R) to adjust tilting of the red vertical lines relative to green vertical lines at left, right, and center.



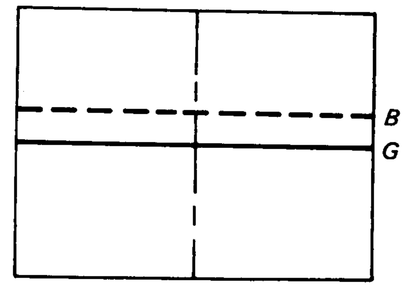
8. Rotate RV6009 (H SKEW R) to make the red and green vertical lines parallel.



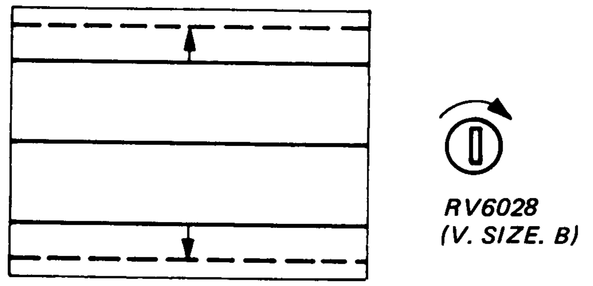
9. Repeat Steps 1, 2 and 3.

3-1-7. GREEN AND BLUE VERTICAL REGISTRATION

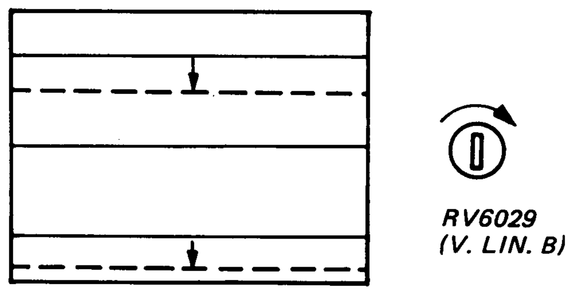
1) Cover a lens cap on the red lens and receive a monoscope signal.
2) Rotate the blue DY. Centering Mg to align the blue monoscope center nearly to the green monoscope center.



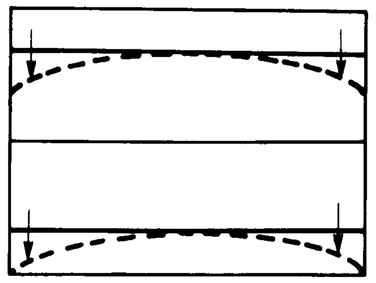
3) Set the TEST/NOR selector switch to TEST and HATCH/BAR switch to HATCH, rotate the blue DY to align the horizontal center lines of green and blue, then fix the blue DY.
4) Align the blue neck ass'y center to the blue DY center and fix them.
5) Rotate RV6028 (V SIZE B) to slightly reduce the widths at top and bottom of the picture.



6) Rotate RV6029 (V LIN B) to equalize the slip quantities of the blue and green horizontal lines.

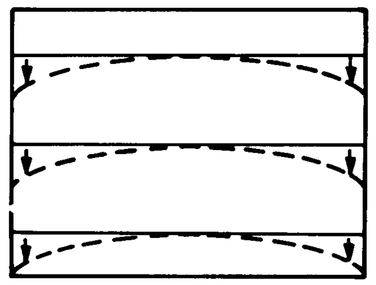


7) Rotate the Centering Mg (B) to align the blue and green horizontal lines.
8) Rotate RV6049 (V SUB BOW B) to make the directions and quantities of the blue and green horizontal lines equal.



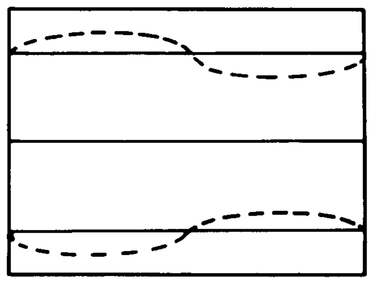
RV6049 (V. SUB BOW. B)

9) Rotate RV6031 (V BOW B) to overlap the green and blue horizontal lines.



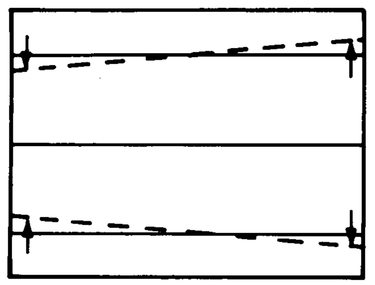
RV6031 (V. BOW. B)

10) Rotate RV6023 (V WAVE R) on the DA Board to overlap the green and red hoorizontal lines.



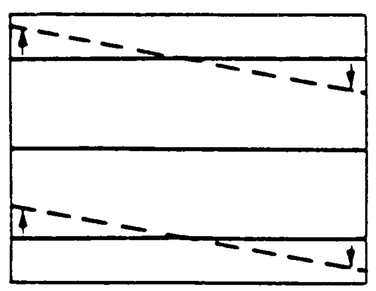
RV6032 (V. WAVE. B)

11) Rotate RV6033 (V KEYS B) to adjust tilting of the blue horizontal lines relative to the green horizontal lines at top and bottom.



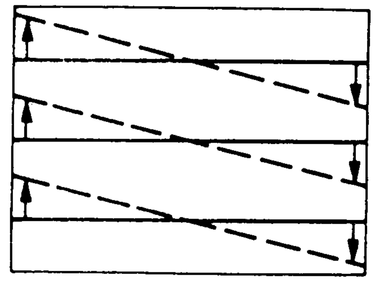
RV6033 (V. KEYS. B)

12) Rotate RV6044 (V SUB SKEW B) to equalize tilting of the blue horizontal lines relative to the top, bottom, and center green horizontal lines.



RV6044 (V. SUB SKEW. B)

13) Rotate RV6030 (V SKEW B) to make the blue and green horizontal lines parallel.

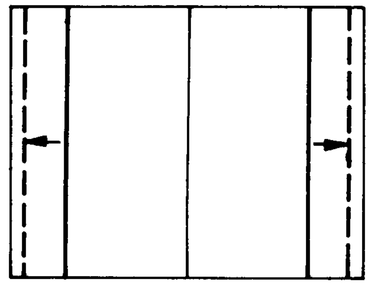


RV6030 (V. SKEW. B)

14) Repeat 5), 6), and 7).

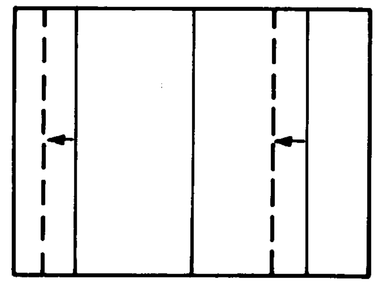
1-1-8. GREEN AND BLUE VERTICAL REGISTRATION

1) Rotate RV6013 (H SIZE B) and slightly reduce the left and right widths of the pictures.



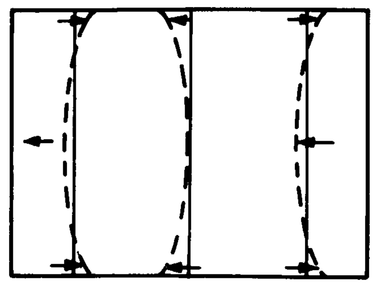
RV6013 (H. SIZE. B)

2) Rotate RV6014 (H LIN B) to equalize the slip quantities of the blue and green vertical lines.



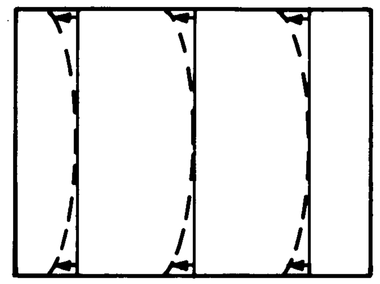
RV6014 (H. LIN. B)

3) Align the blue and green vertical lines using the Centering Mg (B).
4) Rotate RV6046 (H SUB BOW B) to equalize directions and quantities of the green and blue vertical lines.



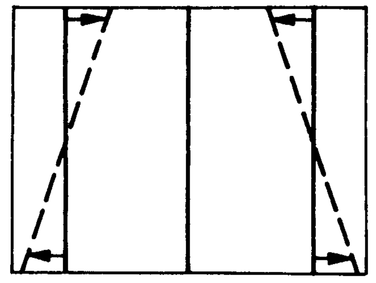
RV6046 (H. SUB BOW. B)

5) Rotate RV6016 (H BOW B) to overlap and green and blue horizontal lines.



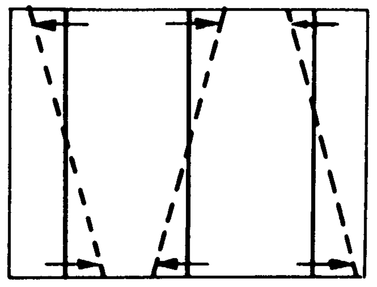
RV6016 (H. BOW. B)

6) Rotate RV6018 (H KEYS B) to adjust tilting of the blue vertical lines relative to the green vertical lines at the left and right edges.



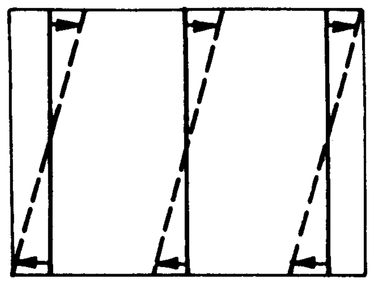
RV6018 (H. KEYS. B)

7) Adjust tilting of the blue vertical lines relative to the left, right, and center green vertical lines by rotating RV6041 (H SUB SKEW B).



RV6041 (H. SUB SKEW. B)

8) Rotate RV6015 (H SKEW B) to make blue and green vertical lines paralles.

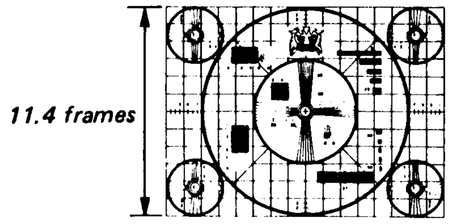


RV6015 (H. SKEW. B)

9) Repeat Steps 1, 2 and 3.

3-2. WHITE BALANCE ADJUSTMENTS

1. Turn the A board RED DRIVE VR (RV404) and GREEN DRIVE VR (RV410) to mechanical center.
2. Set PICTURE VR and BRIGHT VR to minimum.
3. Turn the Focus PACK RED and BLUE G2 VR's to minimum and receive a Monoscope signal.
4. Adjust so that the Monoscope pattern 30IRE glows faintly by adjusting focus pack GREEN G2 VR.
5. Adjust white balance with the RED and BLUE G2 VR's.
6. Repeat steps 4 through 5 several times.



monoscope signal

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RM-736/APM-X4

3-2-1. CIRCUIT ADJUSTMENTS

Note:

(1) TEST EQUIPMENT REQUIRED

1. Variable auto-transformer
2. Isolation transformer
3. Electrostatic voltmeter
   or
   Digital multimeter
   (Capable of measuring voltage more than 1,100V).
4. Frequency counter
5. Color-bar/pattern generator
6. AF generator
7. Oscilloscope

(2) INPUT SIGNAL

When making these adjustments supply a white pattern, a color-bar or an off-air signal.

(3) CONTROLS AND SWITCHES SETTING

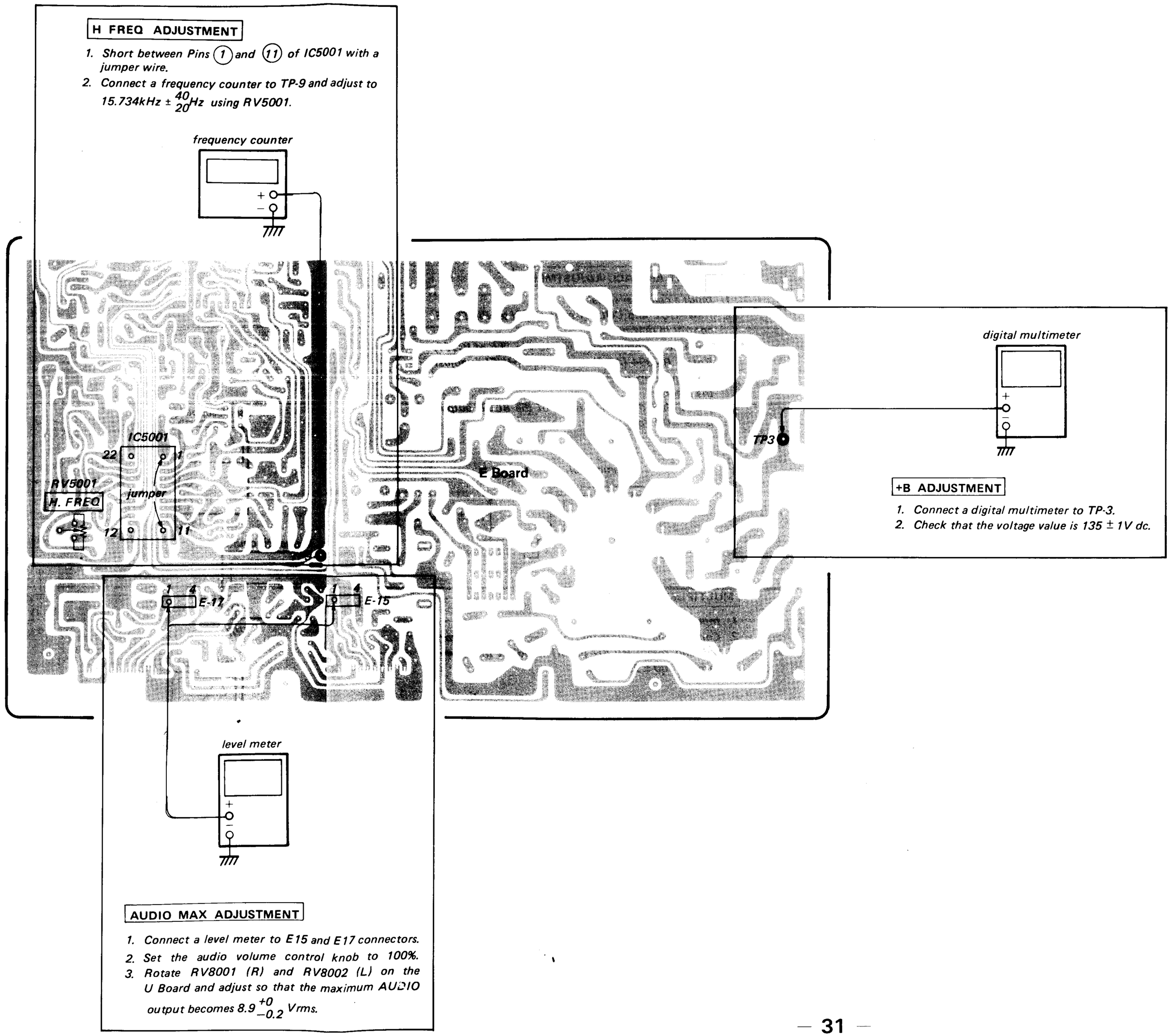
Controls and switches should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control
BRIGHT control
COLOR control
HUE control
V HOLD control
} Set for best picture.

TEST/NORMAL switch . . . . .NORMAL

(4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

3-2-2. E BOARD ADJUSTMENTS


H FREQ ADJUSTMENT
1. Short between Pins (1) and (11) of IC5001 with a jumper wire.
2. Connect a frequency counter to TP-9 and adjust to 15.734kHz ± 40/20 Hz using RV5001.
frequency counter
IC5001
22
1
11
RV5001
H. FREQ
jumper
12
11
E Board
E-17
E-15
level meter
AUDIO MAX ADJUSTMENT
1. Connect a level meter to E15 and E17 connectors.
2. Set the audio volume control knob to 100%.
3. Rotate RV8001 (R) and RV8002 (L) on the U Board and adjust so that the maximum AUDIO output becomes 8.9 +0 −0.2 Vrms.
digital multimeter
TP3
+B ADJUSTMENT
1. Connect a digital multimeter to TP-3.
2. Check that the voltage value is 135 ± 1V dc.

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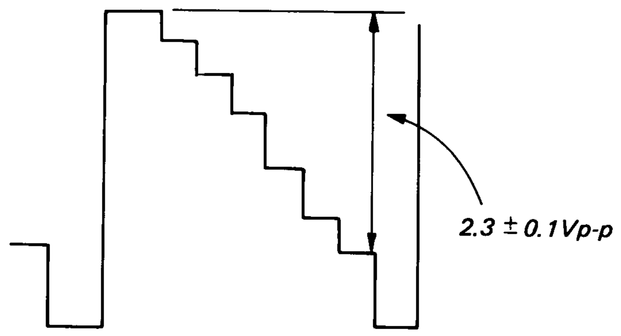
3-2-3. A BOARD ADJUSTMENTS

SUB CONTRAST ADJUSTMENT

1. Input a color bar signal.
2. Set PICTURE control to maximum and COLOR control to minimum.
3. Connect the oscilloscope (E) to Pin (32) of IC301.
4. Rotate RV302 to adjust the waveform of Pin (32) of IC301 as shown in the diagram.

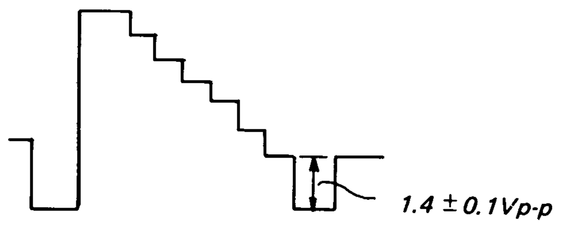


14.3MHz ADJUSTMENT

1. Receive a color bar signal.
2. Set HUE, COLOR, and PIC control to RESET.
   (HUE 50% / COLOR 50% / PICTURE 70%)
3. Connect Pin (30) of IC301 to the ground through a 10kΩ resistor.
4. Connnect Pin (38) of IC301 to the +12V line through a 10kΩ resistor.
5. Short Pins (15) ands (16) of IC301.
6. Connnect a frequency counter to Pin (32) of IC301 and adjust to 3.579kHz ± 40Hz with CV316.

SUB BRT, G BIAS, AND R BIAS ADJUSTMENT

1. Input a color bar signal.
2. Set the PICTURE control switch to maximum, COLOR control switch to minimum, and BRIGHTNESS control switch to 50%.
3. Connect the oscilloscope (C) to Pin (32) of IC301.
4. Rotate RV406 (SUB BRT) to adjust the pedestal level of Pin (32) of IC301 to 1.4±0.1V.



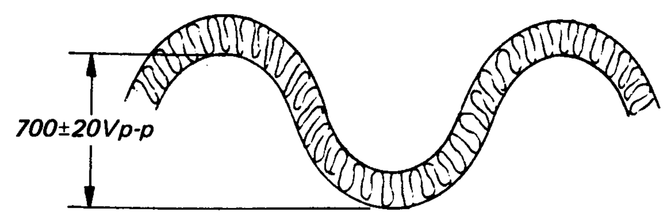
5. Connect the oscilloscope (C) to Pin (34) of IC301 and rotate RV408 (R BIAS) to adjust the pedestal level of the pin to the same value as that pf the Q419 emitter (oscilloscope(D))
6. Connect the oscilloscope (A) to pin (33) of IC301 and rotate RV407 (G BIAS) to adjust the pedestal level of the pin to the same value as that pf the Q420 emitter (oscilloscope(F))

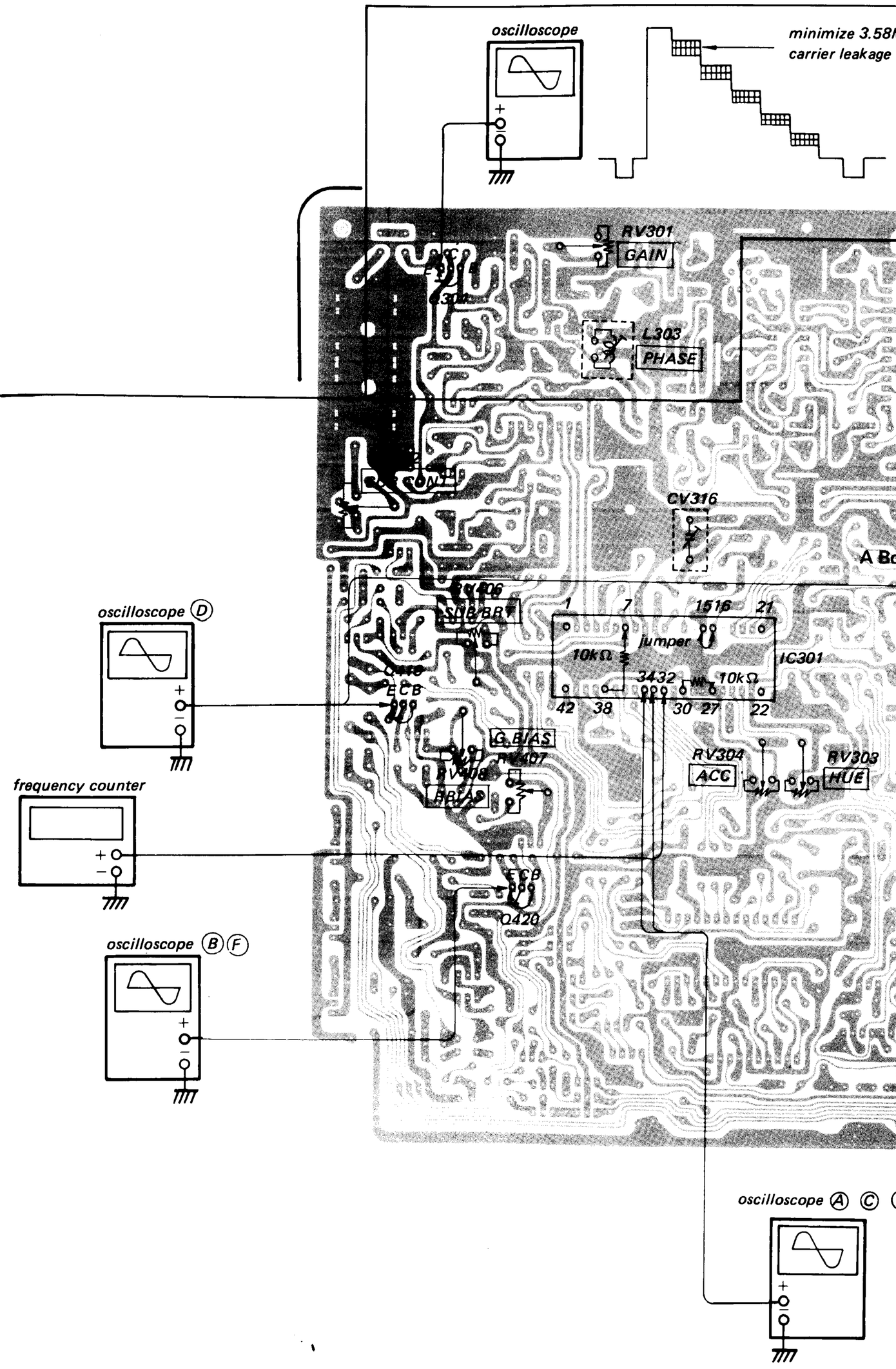
HUE CENT AND ACC ADJUSTMENT

1. Input a color bar signal.
2. Reset HUE and COLOR control and set PICTURE control to maximum.
3. Connect the oscilloscope (E) to Pin (32) of IC301.
4. Rotate RV304 (ACC) and RV303 (HUE) to adjust the waveform of Pin (32) of IC301 as shown in the diagram.
5. Check that the fourth pulse of the BLUE output is 1.9 ± 0.1Vp-p.

MULTIPLEX ADJUSTMENT

1. Input the dot signal.
2. Connect the oscilloscope to Pin (1) of connector A-7 and rotate RV202 (MPX) to adjust the waveform to 700 ± 20mVp-p.





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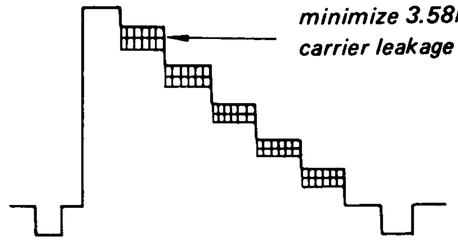
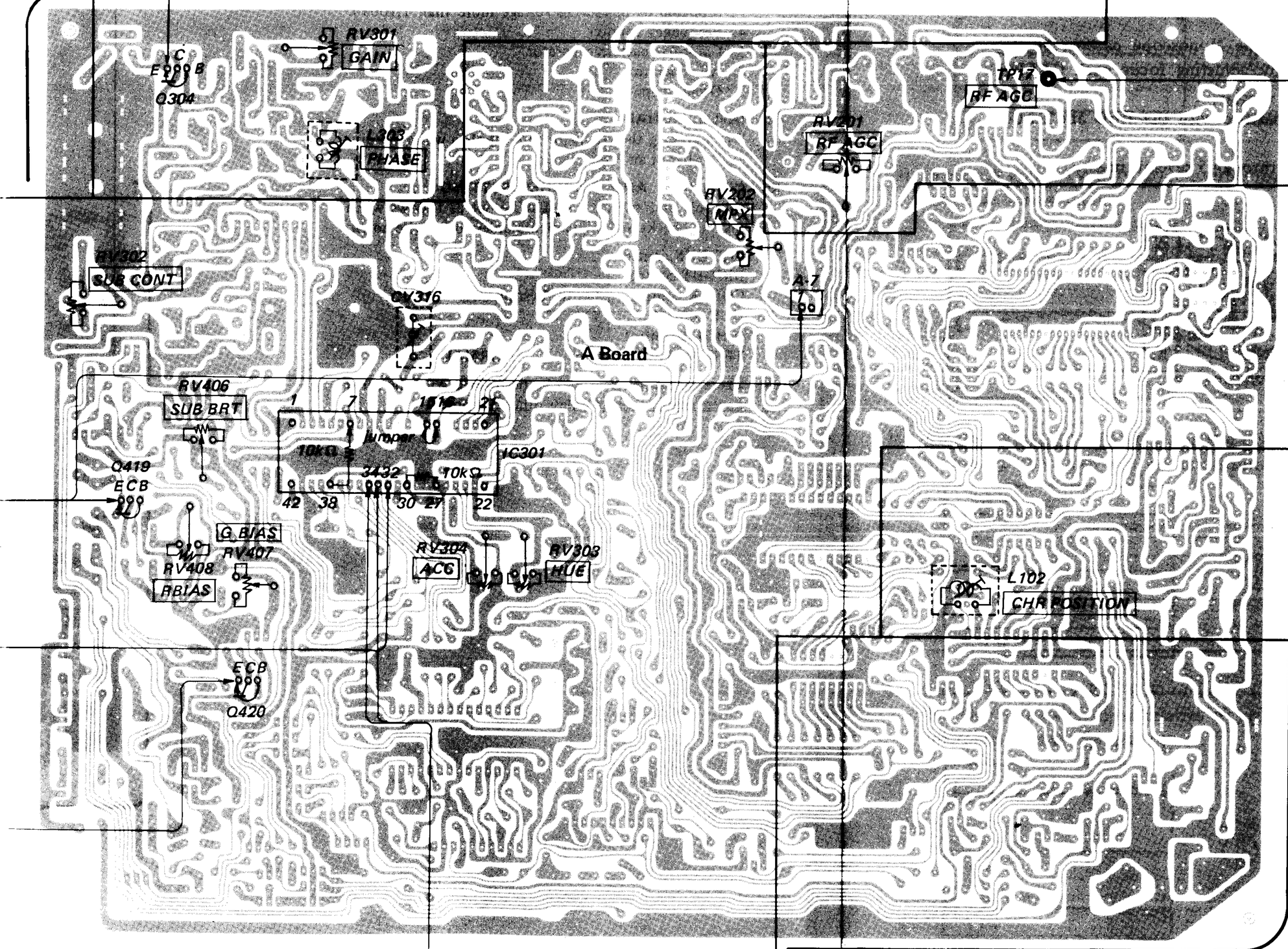
oscilloscope



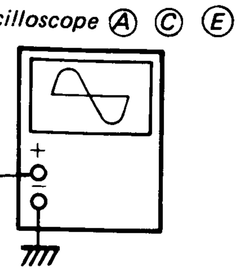
minimize 3.58MHz carrier leakage

Y CHROMA ADJUSTMENT

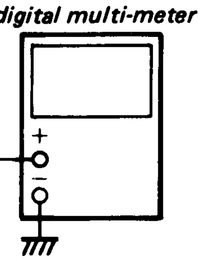
1. Receive a color bar signal.
2. Connect the oscilloscope to the Q304 emitter.
3. Track with RV301 (GAIN) and L303 (PHASE) and adjust to minimize the CHROMA component of the Q304 emitter waveform.



oscilloscope Ⓐ Ⓒ Ⓔ



digital multi-meter



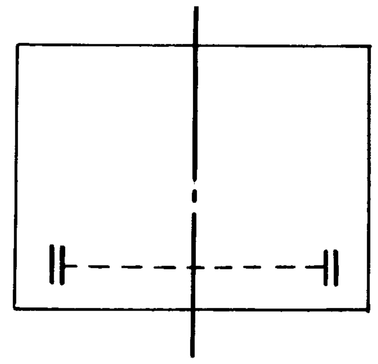
TV AGC ADJUSTMENT

1. Input a color bar signal and set to PICTURE 7(and BRIGHTNESS 50%.
2. Connect a digital multimeter to TP17.
3. Adjust to 7.0 — 7.5V using RV201 when the I AGC voltage is 66dBμ/75Ω open.
4. Check that the TP-17 voltage is I gher than 7. 64dBμ/75Ω opening.

BAR DISPLAY ADJUSTMENT

1. Input a monoscope signal and set PICTURE to MAX.
2. Adjust with L102 (CHR POSITION) so that the length between the bar right-hand side edge to the center is the same as that at the left-hand side edge.
3. Press the SELECT button to select HUE. The boundary between red and green bars should be within the standard when a RESET condition is set up.

Make right and left side symmetrically.



1-2-3. U BOARD ADJUSTMENTS

1. SIGNAL SET UP

Input the following input signals:

- *V_{MAIN}: MAIN CH — 400Hz, 0.7Vp-p*
- *V_{SUB} : SUB CH — 400Hz sine wave and select the SUB CH mode of the USA MTS encorde.. (VSUB level 1.4Vp-p)*
- *V_{SAP} : SAP CH — 400Hz sine wave and select the SAP CH mode of the USA MTS encoder. V_{SAP} level is 0.42[Vp-p]*
- *V_{ST} : STEREO PILOT signal Select the stereo pilot output mode of the USA MTS encoder. V_{ST} level 0.14Vp-p*

2. INPUT SIGNAL CONFIRMATION

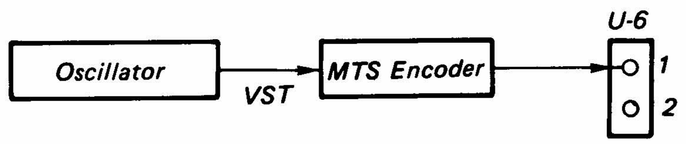
1. *Input a V_{MAIN} signal to Pin (1) (MPX) of Connector U-6.*
2. *Check that the voltage at Pin (1) (MPX-IN) of IC8810 is 0.7Vp-p this time.*

3. AUTO STEREO MODE

Lower the voltage at Pin (1) of Connector U-15 to the ground level (Set up the AUTO STEREO MODE when adjusting USA MTS DECODE.)

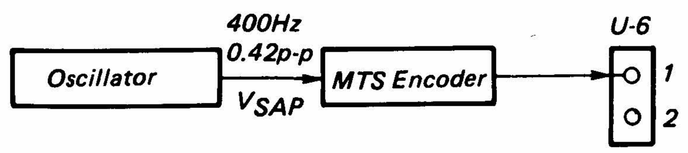
PILOT CANCEL ADJUSTMENT

1. *Input a V_{ST} signal to Pin (1) of Connector U-6.*
2. *Connect the oscilloscope (D) to Pin (40) of IC8810 and rotate RV8817 (PILOT CANCEL) to minimize the output.*
   Check that the ST LED is lit this time.
   ** BPF is needed to (40) pin output.*



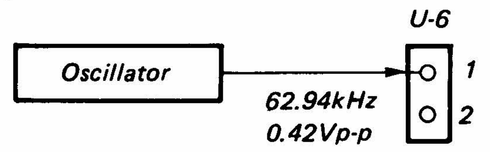
SAP LEVEL ADJUSTMENT

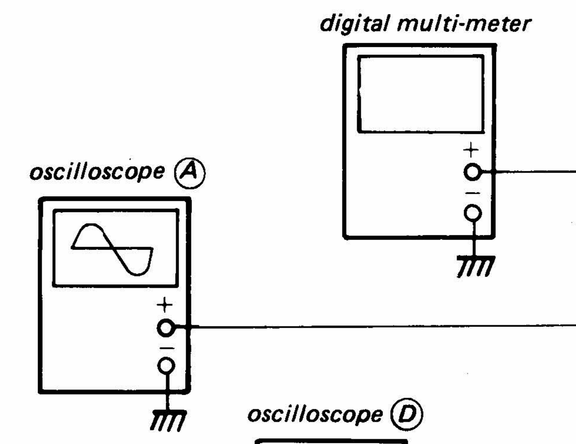
1. *Input a V_{SAP} signal to Pin (1) of Connector U-6.*
2. *Change voice to the SAP mode operating on the operation panel.*
3. *Connect the oscilloscope (B) to Pin (24) of IC8810 and rotate RV8814 (SAP GAIN) to adjust the waveform to 332 ± 10mVrms.*

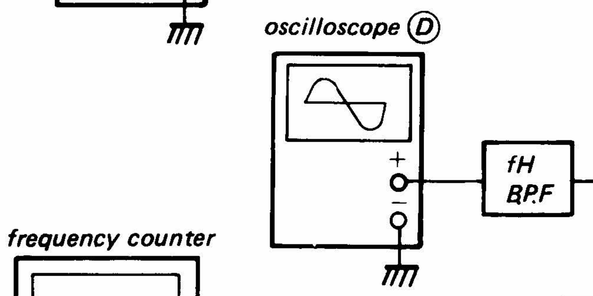


SAP AND STEREO FILTER ADJUSTMENT

1. *Input a sine wave of 62.9kHz and 0.42 [Vp-p] to Pin (1) [MPX IN] from Pin (1) of Connector U-6 of IC8810.*
2. *Connect the oscilloscope (A) to Pin (8) of IC8810 and adjust RV8812 (SAP filter) to minimize the output.*

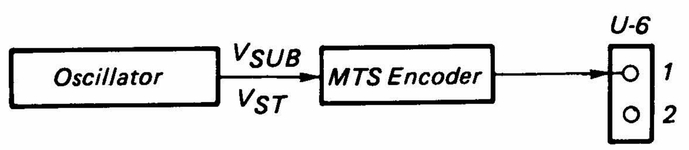


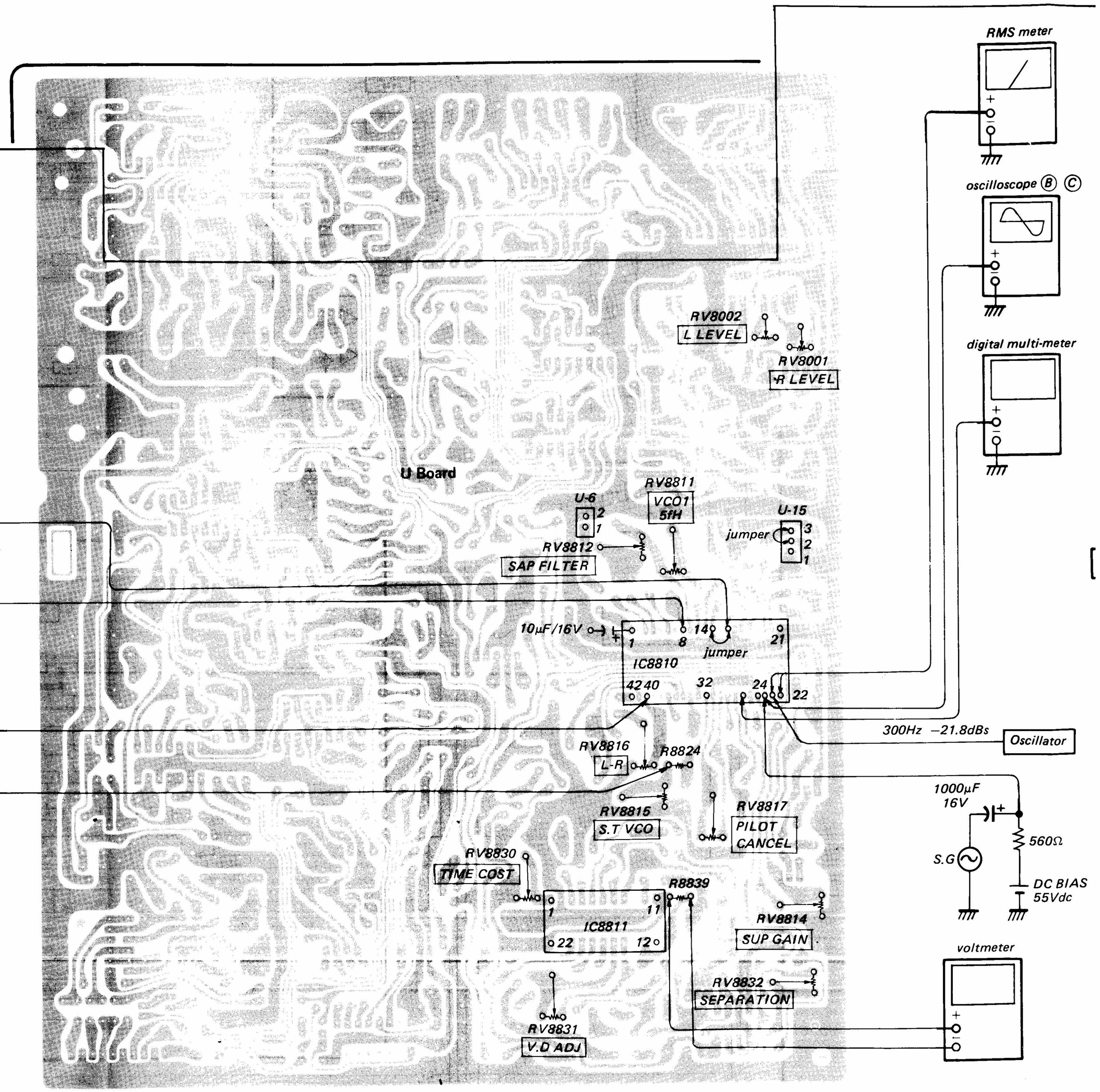




L-R LEVEL ADJUSTMENT

1. *Input the V_{SUB} and V_{ST} composite signals to Pin (1) of Connector U-6.*
2. *Change voice to the MAIN mode operating on the operation panel.*
3. *Connect the oscilloscope (C) to Pin (24) of IC8810 and rotate RV8816 (L-R) to adjust the (L-R) demodulation signal to 332 ± 10mVrms.*





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SAFETY RELATED ADJUSTMENTS

When replacing the following components, make the HV. adjustments.
E board complete
Deflection yoke
Switching regulator
FBT (T4)

L5004, L5005, L5009, C5037 C5038, C5039, C5058, C5059 C5060, C5064, C5119, C5198, R5066, R5096 } *in E board*

R9001, R9002, R9003, R9004, R9005, R9006, C9001, C9002, C9003, C9004, C9005, C9006

When replacing the following components, make the HV, HOLD DOWN adjustments.
HV BLOCK
E board complete

IC5001, Q5001, D5002, D5046, R5020 R5021, R5022, R5024, R5027, R5216 R5217, R5218, R5220, R5221, R5297 } *in E board*

When replacing the following components, make the BEAU CURRENT PROTECTOR Adjustments.

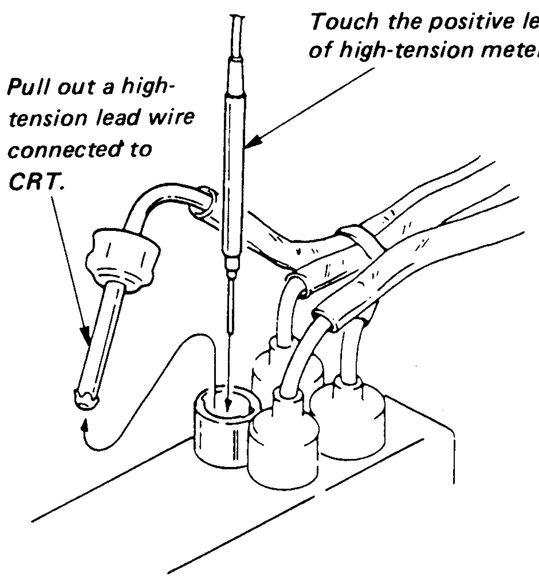
D5027, D5028, D5034, D5060, D5062 R5021, R5022, R5024, R5222, R5223, R5224, R5226, R5227, R5242, R5281 C5151, Q5020 } *in E board*

Q408, R599, R427 R431, R437, R438, C417 } *A board*

+B MAX CHECK

Replace the SW. REG. confirm +B voltage.
If this not satisfied change the SW. REG.

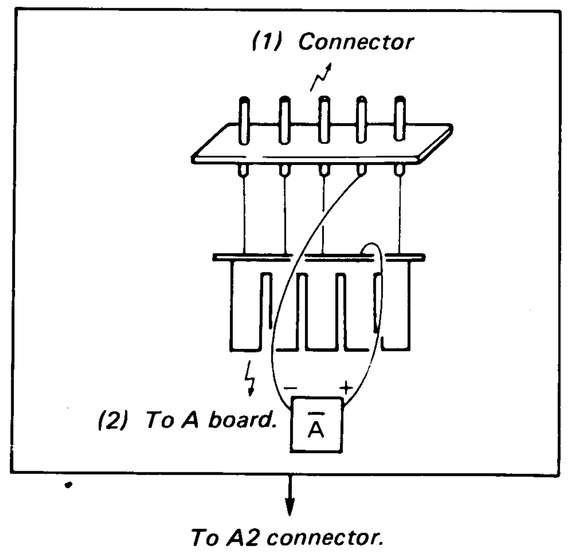
1. *Supply 130V ac to with variable auto-transformer.*
2. *Feed in a dot signal.*
3. *Connect the digital multimeter to C56 plus side and set the power switch to ON.*
4. *Set the PICTURE and BRIGHTNESS control at minimam.*
5. *Confirm the voltage on digital multimeter is less than 136V dc.*

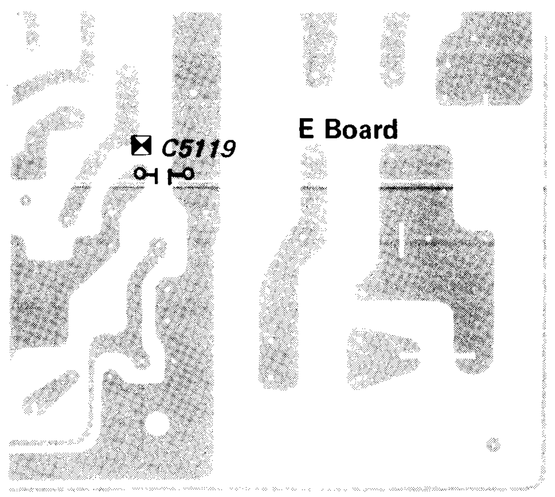


(1) When a high tension meter is available.

HV ADJUSTMENT (⊠ C5119)

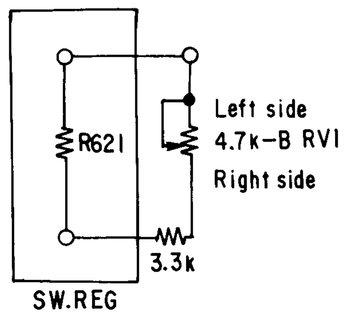
1. *Confirm that the POWER switch is in OFF position.*
2. *Connect the positive lead of the high tension meter to the HV Block and negative lead to the gound lug beside the heat sink.*
3. *Disconnect the A-2 connector on the A board and install the tool shown in the figure. Connect a DC ammeter (3mA range) with the A board side connected to plus (+) side.*
4. *Feed in a dot pattern from a color-bar/pattern generator and supply 120V ac to with variable auto-transformer.*
5. *Disconnect A-21, A-22 and A-23 connector from A board.*
6. *Turn the POWER to ON and confirm the raster disappears.*
7. *Confirm that there is less than 32.53kV on high tension meter.*
8. *Turn the POWER switch to OFF and connect the A-21, A-22 and A-23 of A board.*
9. *Turn the POWER switch to ON and feed in a monoscope pattern.*
10. *Adjust the PICTURE and BRIGHT control so that I_{ABL} 1550 ± 100μA.*
11. *Confirm that there is less than 31.04kV on high tension meter.*
12. *If necessary, select C5119 and repeat above steps.*
13. *Turn the POWER switch to OFF.*

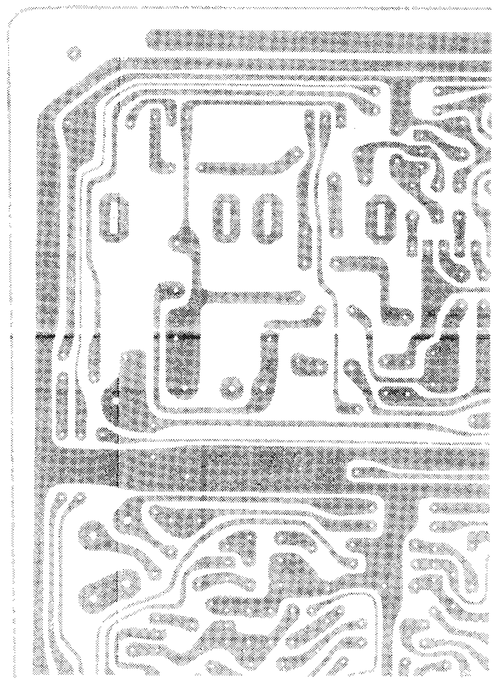




HV HOLD DOWN ADJUSTMENT (⊠ R5217, R5218)

1. *Confirm that the POWER switch is in OFF position.*
2. *Connect the positive lead of the high tension meter to the HV Block and negative lead to the ground lug beside the heat sink.*
3. *Mount ceramic capacitor (470pF) to C5119 of E board.*
4. *Disconnect A-21, A-22 and A-23 connector of A board.*
5. *Remove the SW. REG and take off G board.*
6. *Remove R620 and R621 of G board.*
7. *Install the tool shown in the figure.*
8. *Disconnect the A-2 connector on the A board and install the tool shown in the figure. Connect a DC ammeter (3mA range) with the A board side connected to plus (+) side.*
9. *Feed in a dot pattern from a color-bar/pattern generator.*
10. *Supply 120V ac to with variable auto-transformer.*
11. *Turn the POWER switch to ON.*
12. *Adjust RV1, so that HV HOLD DOWN circuit operate.*
13. *Confirm that the POWER is automatically turned off just when the voltage on the high tension meter is less than 34.65kV (When the raster disappears) if this not satisfied select the ⊠ R5217 and R5218.*
14. *Turn the POWER switch to OFF and feed in a monoscope pattern.*
15. *Turn RV1 to counterclockwise and connect A-21, A-22 and A-23 connector for A board.*
16. *Turn the POWER switch to ON and set the PICTURE and BRIGHT control at max.*
17. *Adjust RV1 so that HV HOLD DOWN circuit operate.*
18. *Confirm that there is less than 33.05kV and I_{ABL} is 1650 ± 100μA.*
19. *Turn the POWER switch to OFF.*
20. *Disconnect the high tension meter and DC ammeter.*
21. *Remove the tool and mount R620 and R621.*





BEAM CURRENT PROTECTOR ADJUSTMENT (⊠ D5027)

1. *Confirm that there is 135V ± 1.0Vdc on +B line.*
2. *Connect the positive lead of the high tension meter to the HV Block and negative lead to the ground lug beside the heat sink.*
3. *Short the R5217 and R5218.*
4. *Confirm that the BEAM CURRENT PROTECTOR operates and the raster disappears when higher than −19.24Vdc is applied to FBT pin (7) from an external DC power supply.*

(2) When a high tension meter is not available

HV ADJUSTMENT (⊠ C5119)

1. *Check if the POWER SW in OFF.*
2. *Mount the 680pF/2 kV ceramic capacitor on the E board's C5119.*
   If the capacitor is already mounted on the C5119, mount the 680pF/2 kV ceramic cpacitor in parallel with the C5119.

HV HOLD DOWN ADJUSTMENT (⊠ R5217, R5218, C5119)

1. *Open the front registration panel, and set the NOR/TEST selector to TEST. The built-in test pattern will then be received.*
2. *Set the user's control to RESET, and set PICTURE to 80%.*
3. *Check if the synchronization of the screen display is normal. If the synchronization is off, adjust by the RV5001 on the E board.*
4. *The resistance of the E board's R5217 and R5218 increases steadily and the HV HOLD DOWN circuit operates. Select the resistance which clears the screen display.*
5. *Mount two 680pF/2 kV ceramic capacitors in parallel with the E board's C5119.*
   If it cannot be mounted normally, mount it on the back of the board.

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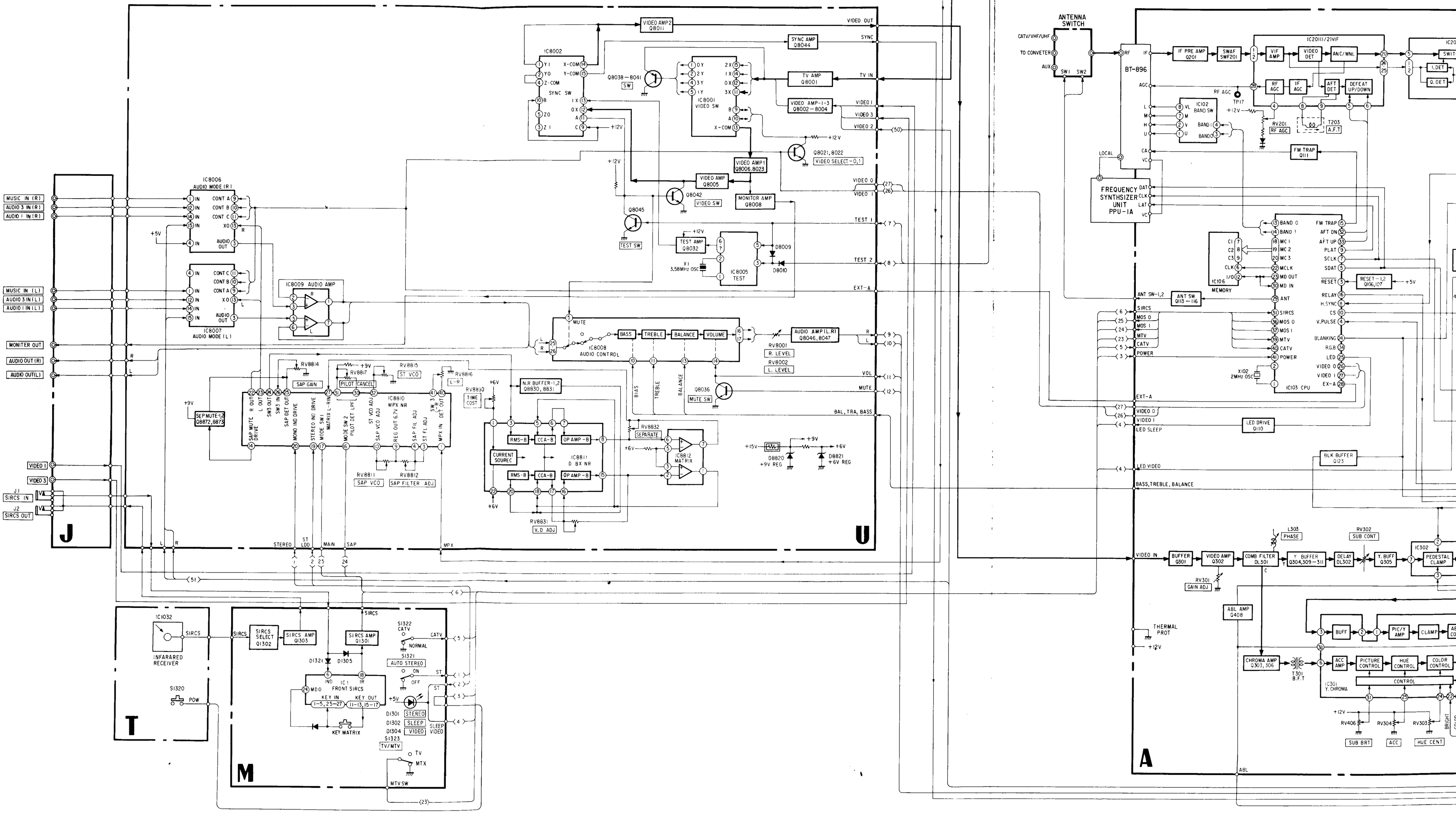
SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM



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ANTENNA SWITCH
V/VHF/UHF
CONVETER
AUX
SW1 SW2
BT-896
RF
IF
IF PRE AMP Q201
SWAF SWF201
IC201(1/2)VIF
VIF AMP
VIDEO DET
ANC/WNL
IC202 PLL DET.
SWITCH
I.DET
Q.DET
V.CO
CF201 4.5MHz TRAP
CF202
HOOKUP-1-4 Q204-207
TV OUT
IC201(1/2)SIF
S I F
DISCRI
T204 DISCRI
RV202 MPX OUT
MPX
AGC
RF AGC
TP17
+12V
RF AGC
IF AGC
AFT DET
DEFEAT UP/DOWN
IC102 BAND SW
VL
M
V
U
BAND I
BAND O
RV201 RF AGC
T203 A.F.T
T205 VCO
FM TRAP Q111
LOCAL
CA
VC
SYNC SEP Q124-126
MUTE
MUTE-1 Q128,D119
MUTE-2 Q202
+12V
D202
FREQUENCY SYNTHSIZER UNIT PPU-1A
DAT
CLK
LAT
VC
VOLUME CONTROL Q103,104
VOL
RESET Q101,102 D101
+5V
RESET
VIDEO LED
CLK
CS
SDAT
SDO
SDI
IC101 DISPLAY
X101 4MHz OSC
VOL 0
VOL 5
DAT
CLK
LAT
BALA
TRE
BASS
COLOR
SHARP
HUE
BRIGHT
PICTURE
IC107 A/D CONV
COLOR CONT Q313
COLOR
PICTURE, SHARP, HUE, BRIGHT
BAND 0
BAND 1
MC 1
MC 2
MC 3
MCLK
MD OUT
MD IN
IC106 MEMORY
C1
C2
C3
CLK
I/O
FM TRAP
AFT DN
AFT UP
PLAT
SCLK
SDAT
RESET
RESET-1,2 Q106,107
+5V
RELAY
H.SYNC
CS
V.PULSE
BLANKING
R.G.B
LED
VIDEO 0
VIDEO 1
EX-A
ANT SW-1,2
ANT SW Q113-116
ANT
SIRCS
MOS 0
MOS 1
MTV
CATV
POWER
X102 2MHz OSC
IC103 CPU
EXT-A
VIDEO 0
VIDEO 1
LED SLEEP
LED DRIVE Q110
LED VIDEO
BASS, TREBLE, BALANCE
IC105
IC104 DISPLAY
V IN
H. IN
BLK
CLK
DAT
CI
CO
L102 CHR POSITION
V. INVERTER Q127
V. INVERTER Q105
V PULSE Q118
V.P DET Q109
H.P INVERTER Q108
R.G.B O BUFF Q404-406
BLK BUFFER Q123
V.P
V.SYNC
H.P
RELAY
BLK
H SYNC
R.G.B DRIVE
R.G.B BUFF Q411-413
R.G.B DRIVE Q416-418
R.G.B
R
G
B
VIDEO IN
BUFFER Q301
VIDEO AMP Q302
COMB FILTER DL301
Y BUFFER Q304,309-311
DELAY DL302
Y. BUFF Q305
L303 PHASE
RV302 SUB CONT
IC302
PEDESTAL CLAMP
RV301 GAIN ADJ
ABL AMP Q408
THERMAL PROT
+12V
CV316
X301 14.3MHz OSC
BUFF
PIC/Y AMP
CLAMP
ABL/BRT CONTROL
R.G.B MATRIX
B.L.K
CHROMA AMP Q303,306
T301 B.F.T
ACC AMP
PICTURE CONTROL
HUE CONTROL
COLOR CONTROL
DEMOD
IC301 Y.CHROMA
CONTROL
BURST FLAG
RV406 SUB BRT
RV304 ACC
RV303 HUE CENT
BRIGHT
COLOR
HUE
SHARP
PICTURE CONT, MUTE Q403,430
BLK G Q419-423,426
RV407 RV408 G.R BIAS
RV404 RV410 R.G.B DRIVE
+15V → +12V REG Q209 → +12V
+12V → +9V REG Q208 → +9V
+8V → +5V REG Q251 → +5V
ABL
A

G

T601
+135V RECT D604
+18V RECT D605
-18V RECT D606
+135V
+18V
-18V
L604
KICK RECT D608
T603
START Q607,608
ON/OFF
OVER VOLTAGE DETECT Q604-606
+18V
CONVERTOR Q601,602
T601
L601
DC
IC601
Q603 KICK

CR
R OUT Q701
PICTURE TUBE (R)
H G2 G4

CG
G OUT Q721
PICTURE TUBE (G)
H G2 G4

CB
B OUT Q741
PICTURE TUBE (B)
H G2 G4

DA

S6001
TEST
+5V
TEST/NOR
S6002
HATCH/BAR
H.SHIFT
RV6006
+18V
+12V REG IC6002
+12V
V. HOLD
V.SAW
V. SAW Q6003
H.PARA
D6005
H. PARA Q6002
V.PARA
V. PARA Q6004
IC6009(1/2)
D6004
D6006
+B
RV6034 H.FREQ ADJ
IC6003(1/2)
MIX
IC6004
TP6005 KEYS
RV6035 PIN ADJ
TP6001 H SAW
IC6001(1/2)
MIX
IC6005
H.SAW Q6001
H.SAW
AUDIO L-R
VIDEO 2
VIDEO 2 IN (R)
AUDIO IN (L)
SP904 TWEE(R)
SP903 WOO(R)
SP902 TWEE(L)
SP901 WOO(L)
AUDIO OUT(L,R)
H.SAW
IC5008 (L)
IC5009 (R)
AUDIO(L)
AUDIO(R)
TP20 L.OUT
TP21 R.OUT
+B
H. SAW BUFFER Q5002
IK. PROTECT-1-3 Q5020,5021,5027
D5028
PROTECTOR Q5001
D5027
ABL
H.SYNC
RV5001 H.FREQ
H. PROTECT AMP. OUT Q5031,5032
H SYNC SEP
AFC
H.OSC
PROTECTOR
AMP
H DRIVE Q5013
VIDEO
VIDEO BUFFER Q5025
V.SYNC SEP
V. OSC
V. DRIVE
V. BLK
IC5001
D5026 PROTECT
V. SAW-1,2 Q5003,5004
V.D SW D5003
H.CENTI,2
V.SYNC
V.P
H.P
V.HOLD
BLK
ON/OFF
AC IN 120V 60Hz
F5001 6.3A
T5005 LFT
T5006 LFT
T5002
+5V REG Q5024,D5029
+5V
+12V RECT D5018
+12V REG IC5007
ON/OFF-1,2 Q5022,5023
POWER RECT D5019
DC +
RELAY

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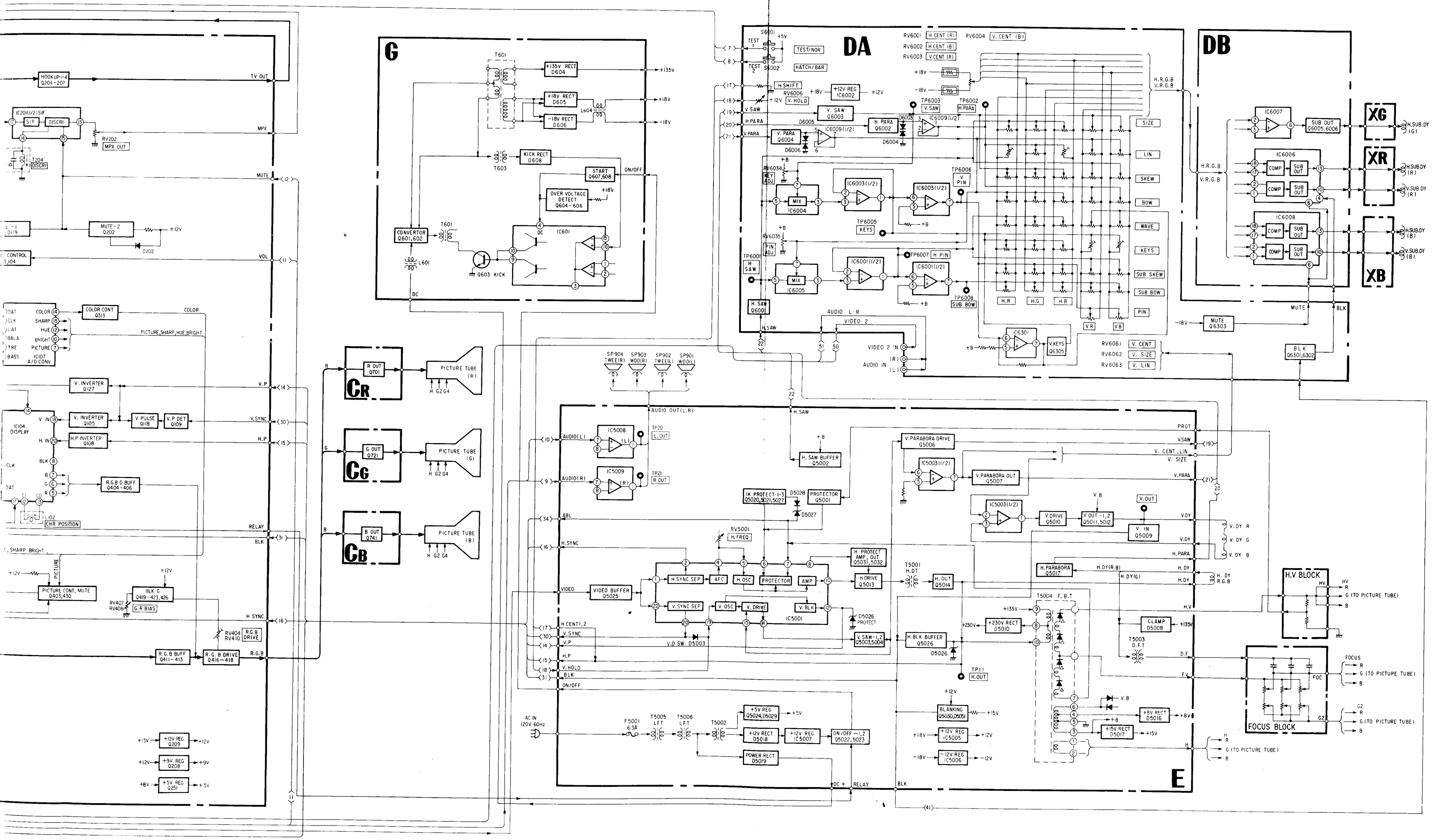
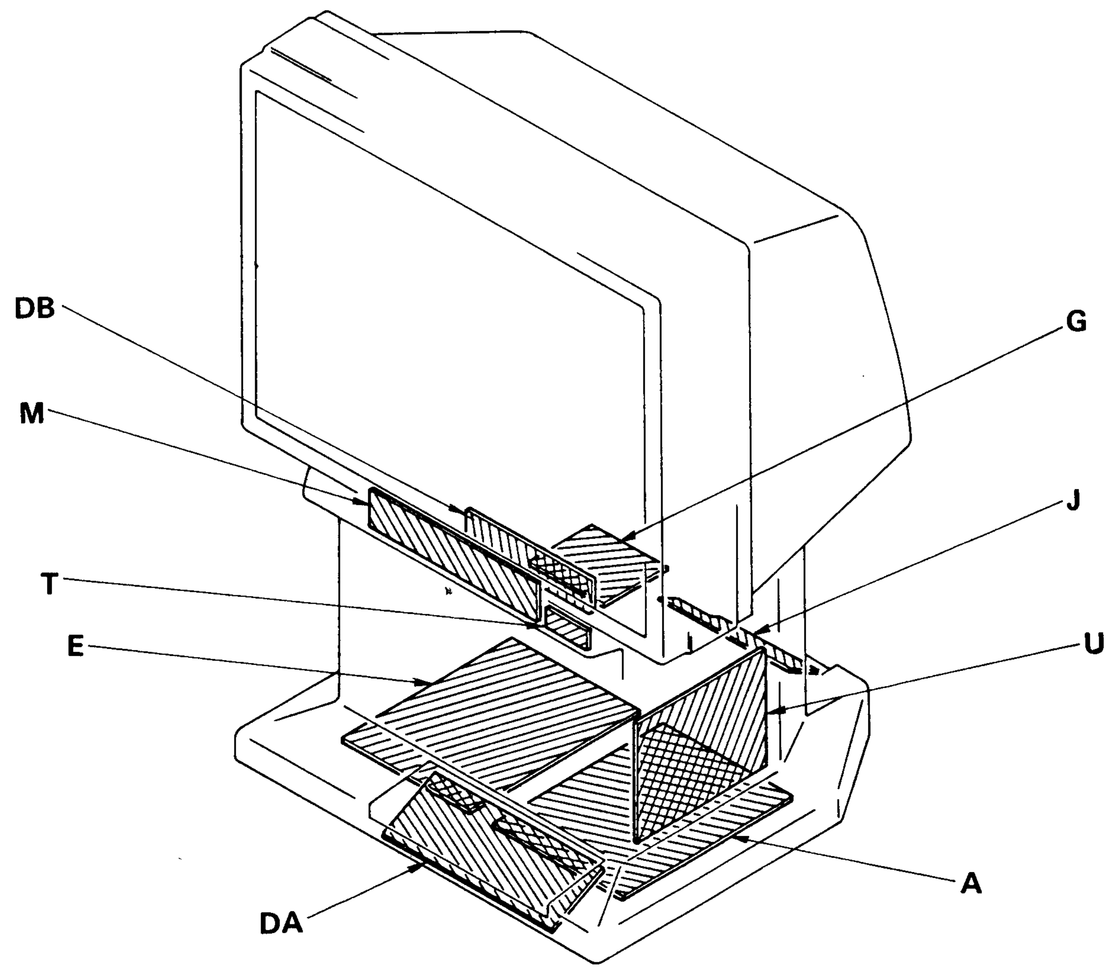
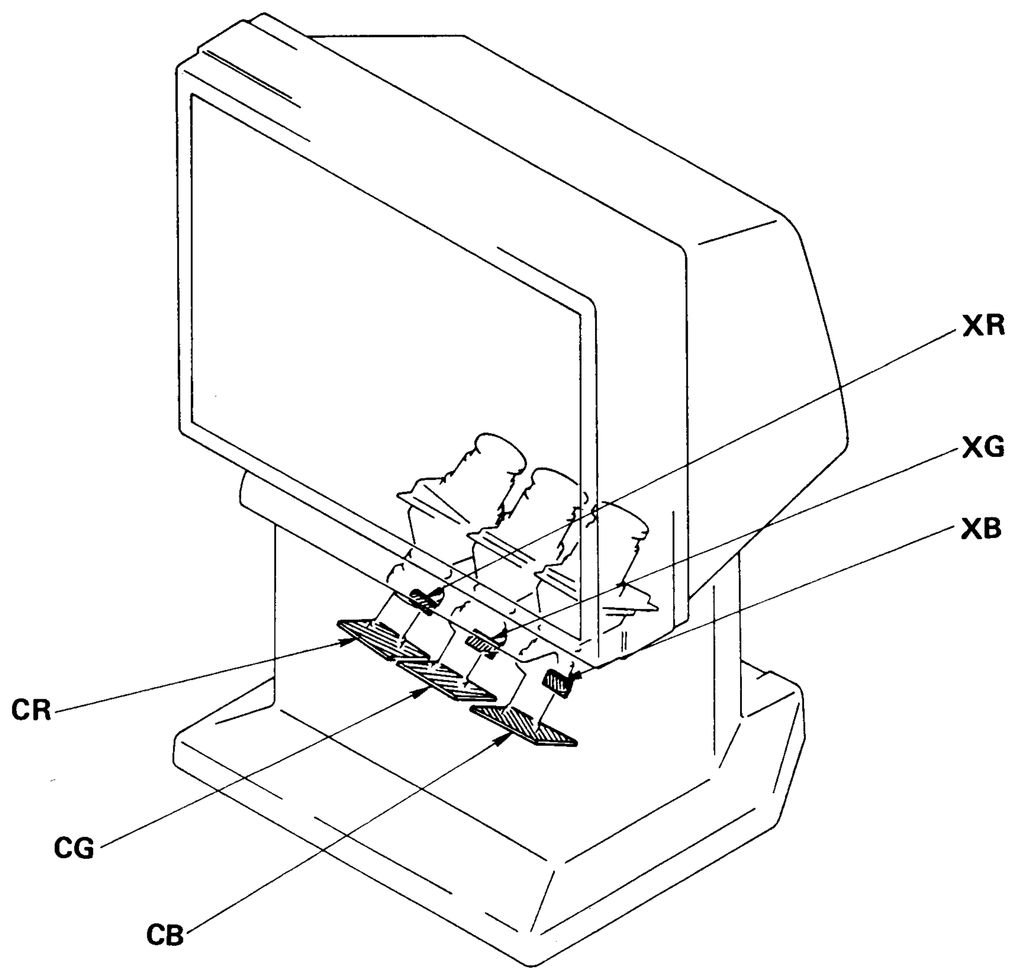


KPR-36XBR
RM-736/APM-X4

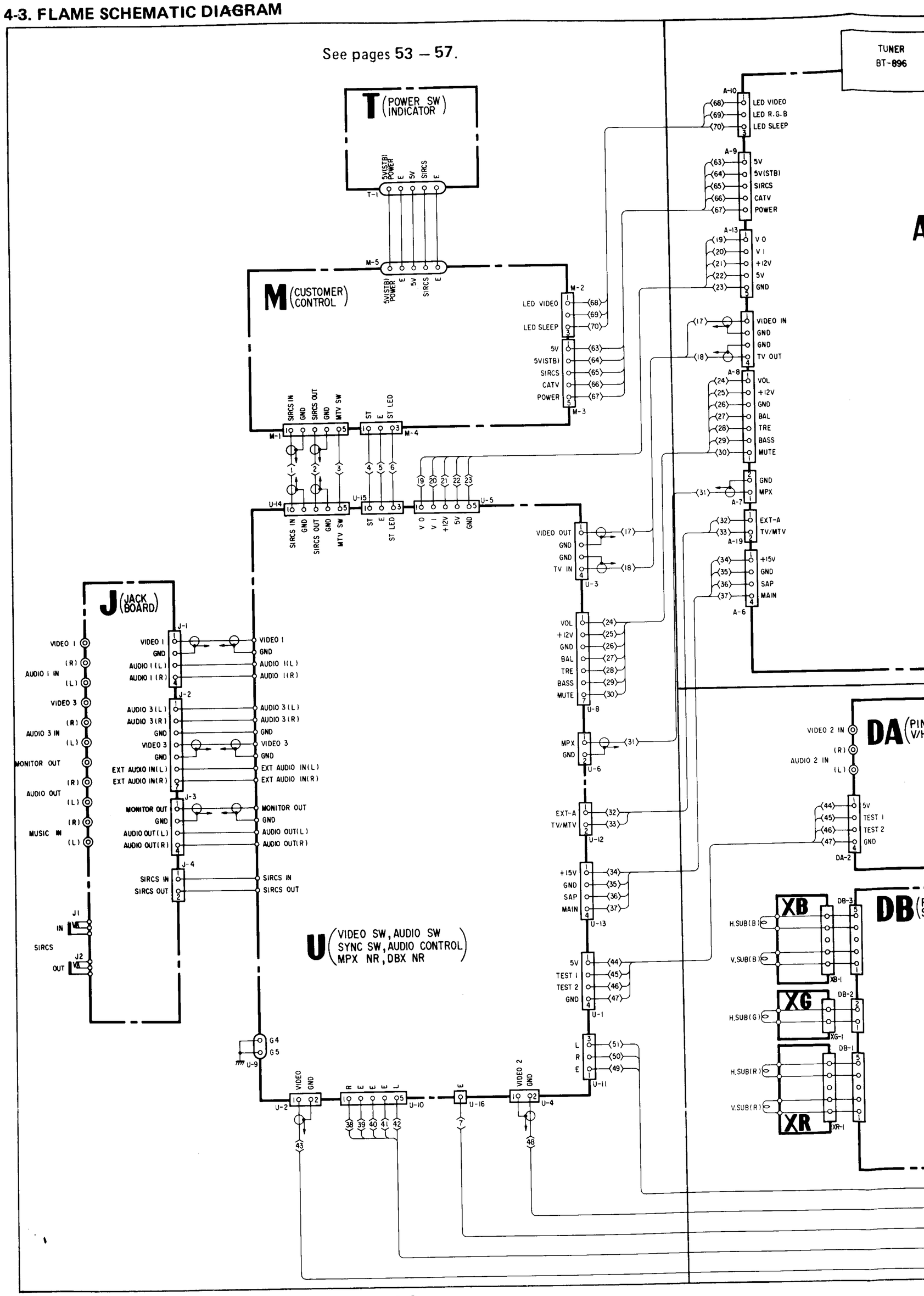
4-2. CIRCUIT BOARDS LOCATION





4-3. FLAME SCHEMATIC DIAGRAM

See pages 53 – 57.



KPR-36XBR
RM-736/APM-X4

TUNER BT-896

FREQUENCY SYNTHSIZER PPU-1A

ANT

See pages 63 – 67.

A (TUNER, VIF/SIF, Y/CHROMA, VIDEO AMP R·G·B DRIVE, SYNC SEP)

LED VIDEO
LED R·G·B
LED SLEEP
5V
5V(STB)
SIRCS
CATV
POWER
V O
V I
+12V
5V
GND
VIDEO IN
GND
GND
TV OUT
VOL
+12V
GND
BAL
TRE
BASS
MUTE
GND
MPX
EXT-A
TV/MTV
+15V
GND
SAP
MAIN

A-15: SW 2, GND, SW 1

A-21: +12V, E, R — (73), (74), (75)
A-22: +12V, E, G — (76), (77), (78)
A-23: +12V, E, B — (79), (80), (81)

THERMAL PROT — +12V — A-16

A-2: HP (82), GND (83), VP (84), ABL (85), BLK (86), (87), (88), H.SYNC (89), V.SYNC (90), (91)
A-3: +135V (92), GND (93), +8V (94), +15V (95)
A-1: 5V PM (96), RELAY (97), GND (98), -40V (99)

CR (R,OUT): CR-2 (73) +12V, (74) E, (75) R; (136) 230V, (135) GND, (134) H, (133) H; CR-1; FOCUS (R) (137); G2 (R) (138); CR-4; CR-3; CHASSIS EARTH
CG (G,OUT): CG-2 (76) +12V, (77) E, (78) G; (132) 230, (131) GND, (130) H, (129) H; CG-1; FOCUS (G) (139); G2 (G) (140); CG-4; CG-3; CHASSIS EARTH
CB (B,OUT): CG-2 (79) +12V, (80) E, (81) B; (128) 230, (127) GND, (126) H, (125) H; CB-1; FOCUS (B) (141); G2 (B) (142); CB-4; CB-3; CHASSIS EARTH

PICTURE TUBE (R) — SD-174 — (143)
PICTURE TUBE (G) — SD-174 — (144)
PICTURE TUBE (B) — SD-174 — (145)

E-3: 5V PM, RELAY, GND, -40V — (96) (97) (98) (99)
E-10: +135V, GND, +8V, +15V — (92) (93) (94) (95)
E-6: H.P, GND, VP, ABL, BLK, H.SYNC, V.SYNC — (82) (83) (84) (85) (86) (87) (88) (89) (90) (91)
E-19: 230V, GND, H, H — (136) (135) (134) (133)
E-21: 230V, GND, H, H — (132) (131) (130) (129)
E-23: 230V, GND, H, H — (128) (127) (126) (125)
E-13: DF, FOCUS, H·V — (124) (122)

DA (PIN AMP V/H SAW, V/H PARA)
VIDEO 2 IN (R) AUDIO 2 IN (L)
DA-2: (44) 5V, (45) TEST 1, (46) TEST 2, (47) GND
DA-8 — E-36: V.LIN 3, V.LIN 2, V.LIN 1, V.SIZE 2, V.SIZE 1, V.CENT 3, V.CENT 2, V CENT 1 — (200) (201) (202) (203) (204) (205) (206) (207)
DA-3 — E-26: V.HOLD 1, V HOLD 2, V.CENT 1, E, E, H.CENT 2 — (108) (109) (110) (111) (112) (113)
DA-1 — E-22: H.SAW, H.PARA, V.SAW, V.PARA, BLK, +18V, -18V, GND — (100) (101) (102) (103) (104) (105) (106) (107)
DA-6: GND, VIDEO 2 — (48)
DA-7: L, R, E — (51) (50) (49)

DB (R·G·B (SUB OUT))
XB / XG / XR
DB-3 / DB-2 / DB-1 — XB-1 / XG-1 / XR-1
DB-4 — DA-4: +18V, -18V, E, MUTE 1, MUTE 2, HG.1, HG.2
DB-5 — DA-5: HR.1, HR.2, HB.1, HB.2, VR.1, VR.2, VB.1, VB.2

E (V/H SYNC, AUDIO OUT V/H OUT, POWER RECT)

AC PLUG — WHT — E-33 — (7)
E-18: R, E, E, E, L — (38) (39) (40) (41) (42)
E-5: VIDEO, GND — (43)

L.OUT: TWEETER (L), WOOFER (L) — E-15
R.OUT: TWEETER (R), WOOFER (R) — E-17

CHASSIS EARTH — E-12
V.DY(R), V.DY(G), V.DY(B) — E-11
E-31
E-1: DC(+), DC(-) — (14) (15)
E-4: +135V, GND, +18V, GND, -18V, ON/OFF — (16) (17) (18) (19) (20) (21)

E-14: 135V, GND
E-27: 135V, E, E
E-28: 135V — H.DY(R)
E-16: 135V — H.DY(G)
E-30: 135V — H.DY(B)

FOCUS PACK: G2(R), G2(G), G2(B), FOCUS(R), FOCUS(G), FOCUS(B) — (138) (140) (142) (137) (139) (141); DF, FOCUS
H,V BLOCK: F.B.T, H.V; H.V(R) (143), H.V(G) (144), H.V(B) (145); H.V PROT

G (SW REG): +135V OUT, NC, GND, +18V OUT, GND, -18V OUT, ON/OFF; IN(+), NC, IN(-) — (16) (17) (18) (19) (20) (21) (14) (15)

See pages 73 – 77.

KPR-36XBR
RM-736/APM-X4

4-4. SHCEMATIC DIAGRAM AND PRINTED WIRING BOARDS

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

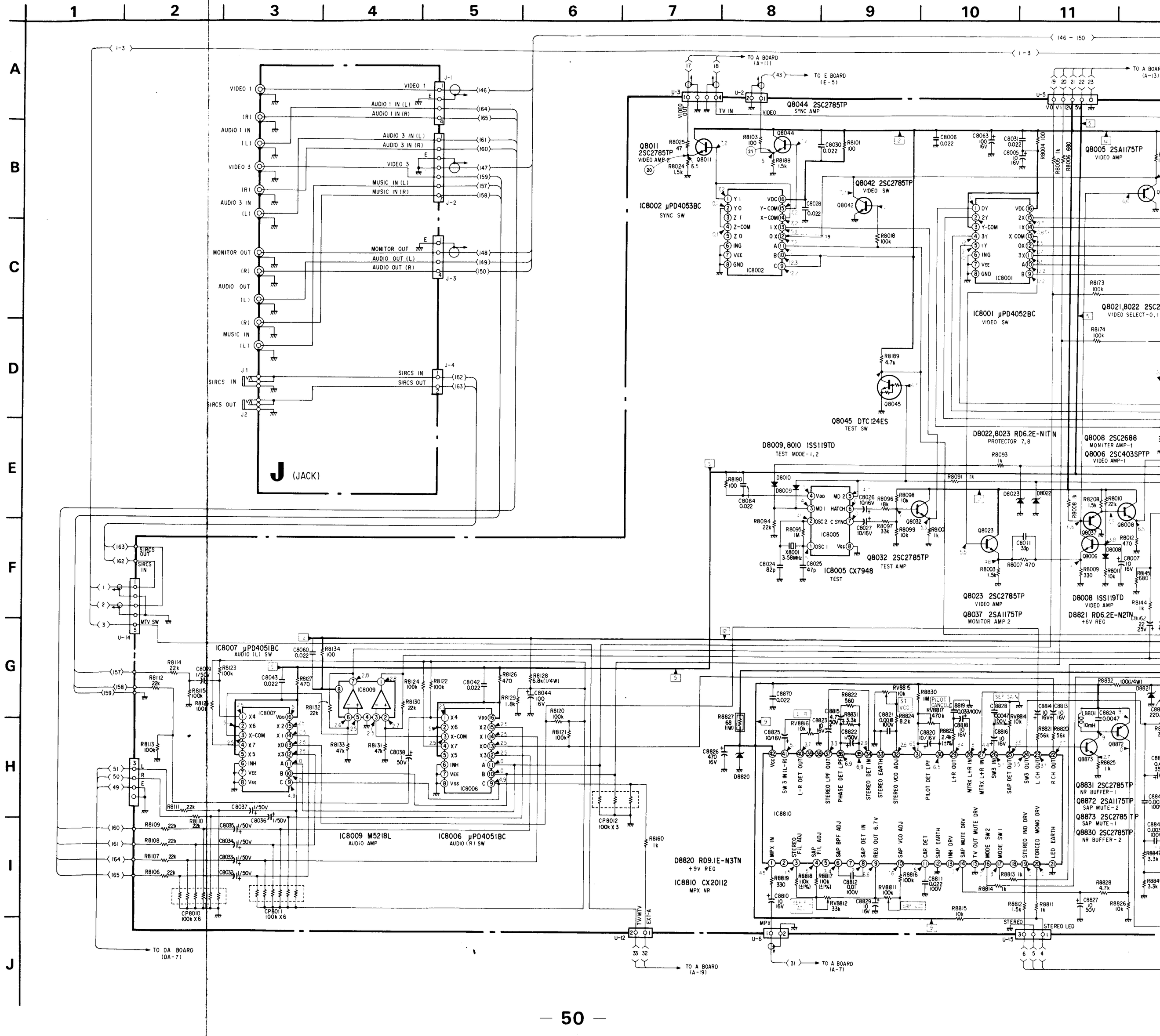
Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- Resistors on G board and BA board are ¼W, and those on all other board's are 1/6W. kΩ: 1000Ω, MΩ: 1000kΩ
- : nonflammable resistor.
- △ : internal component.
- [ ] : panel designation.
- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the spedified value, change the component identified by and repeat the adjustment until the specified value is achieved.
  (Refer to HV HOLD DOWN and HV adjustments on page 37 – 39).
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced		Adjustment
E board complete HV block IC5001, Q5001, D5002, D5046, R5020, R5021, R5022, R5024, R5027, R5119, R5216, R5217, R5218, R5219, R5220, R5221, R5297	in E board	HV HOLD DOWN ADJUSTMENT (R5217, R5218)
E board complete Deflection yoke Switching regulator F.B.T C5037, C5038, C5039 C5058, C5059, C5060 C5064, C5119, C5198 L5004, L5005, L5009 L5010, R5066, R5096 R9001, R9002, R9003 R9004, R9005, R9006 C9001, C9002, C9003 C9004, C9005, C9006	in E board	HV ADJUSTMENT C5119
When replacing the following components, make the BEAM CURRENT PROTECTOR C5151, D5027, D5027, D5028, D5034, D5060 D5062, Q5020, R5021 R5022, R5024, R5222 R5223, R5224, R5226 R5227, R5242, R5281	in E board	BEAM CURRENT PROTECTOR ADJUSTMENT D5027
C417, Q408, R427 R431, R437, R438 R599	in A board	

- **All variable and adjustable resistors have characteristic curve B, unless otherwise noted.**
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10MΩ digital multimeter.
- [ ] : adjustment for repair.
- Readings are taken with a color-bar signal input.
  no mark : Normal
  ( ) : Color bar video signal received
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : B- bus.
- Circled numbers are waveform references.



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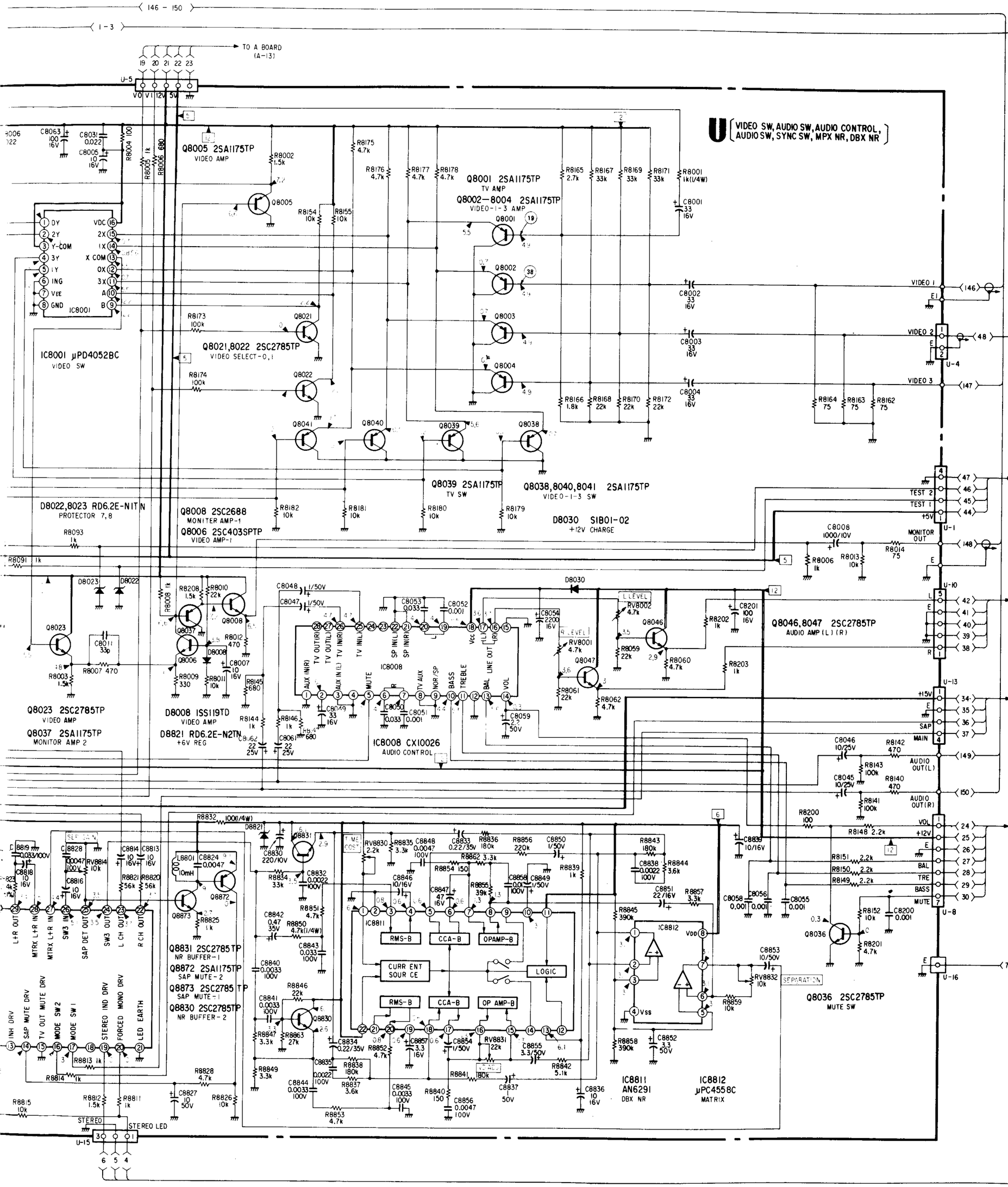
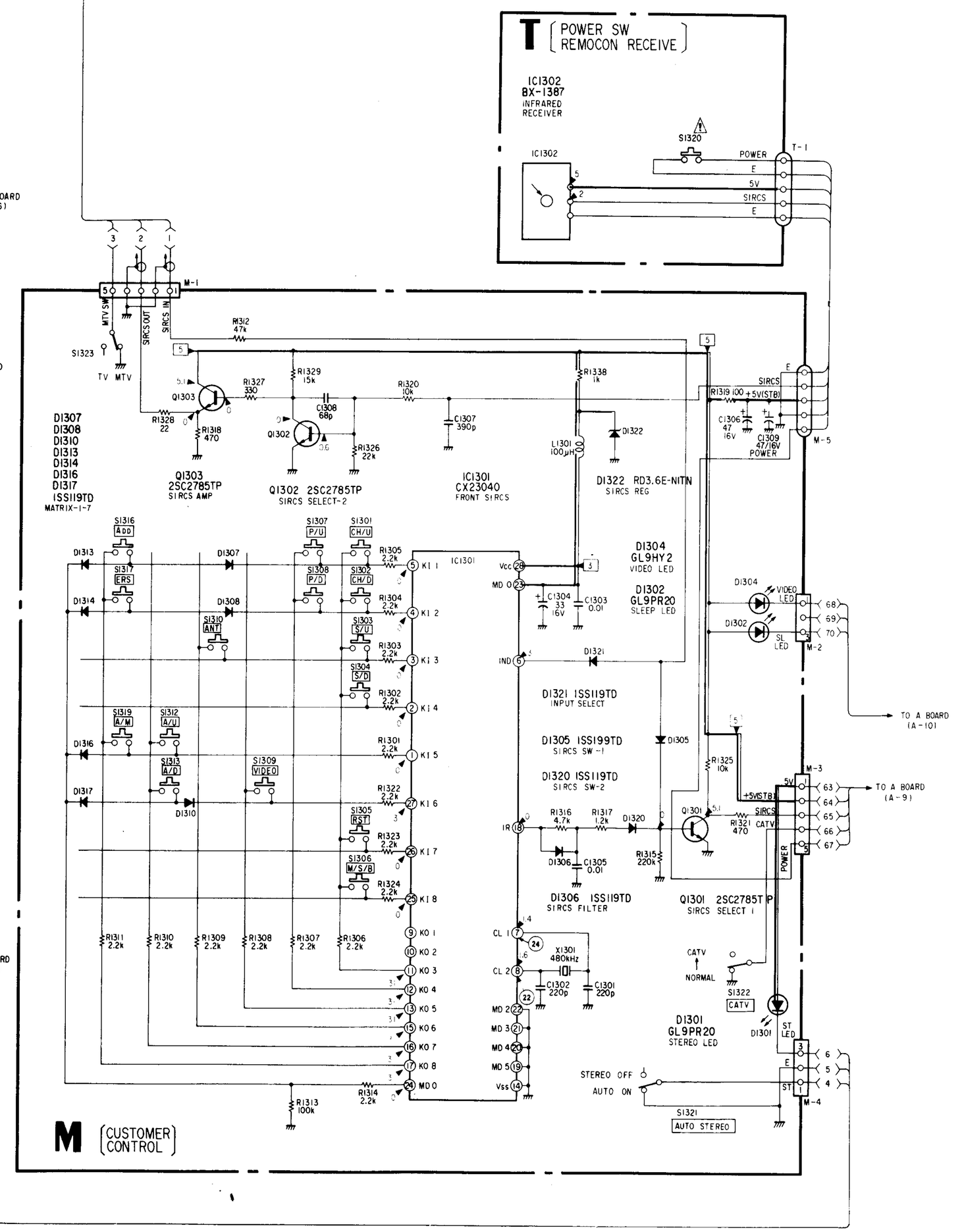
RM-736/APM-X4

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

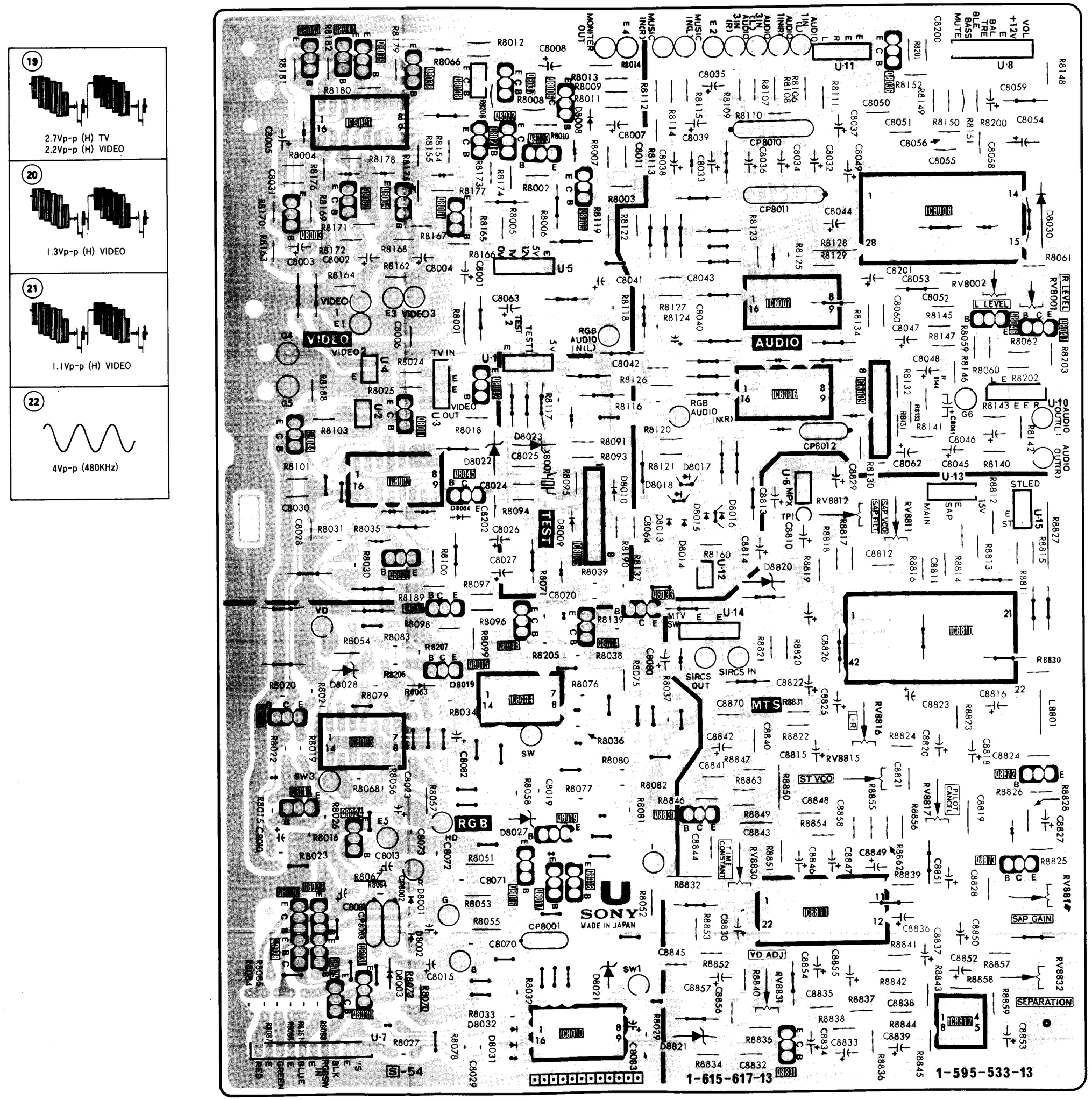
A B C D E F G H I J





U [VIDEO SW, AUDIO SW, AUDIO CONTROL, AUDIO SW, SYNC SW, MPX NR, DBXNR]

— U Board —

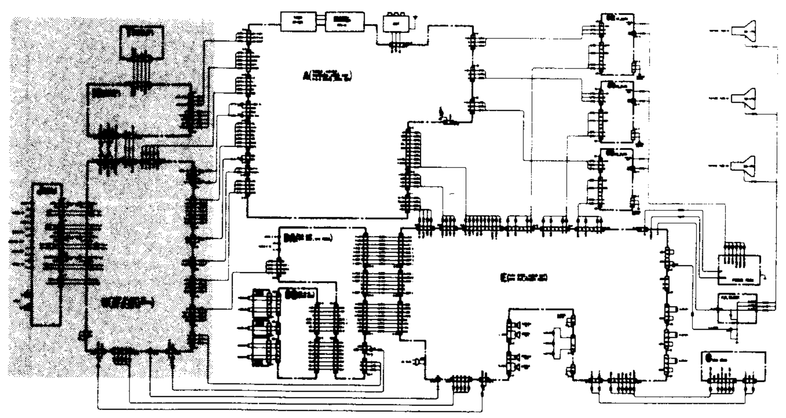


19 — 2.7Vp-p (H) TV, 2.2Vp-p (H) VIDEO

20 — 1.3Vp-p (H) VIDEO

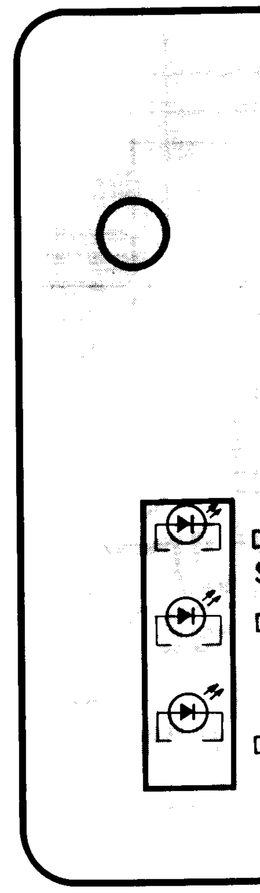
21 — 1.1Vp-p (H) VIDEO

22 — 4Vp-p (480KHz)

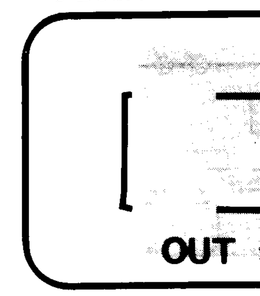


IC , Q	D	ADJ
8040 8036 8041 8039 8038 8008 8037 8006 IC8001	8008	
8021 8022 8023 8005 8002 8004 8003 8001 IC8008	8030	
IC8007 8046 8047		RV8002 RV8001
8042 IC8006		
8011 IC8009 8044	8022 8023	
IC8002 8045 IC8005	8010 8009	RV8812 RV8811
8032 8033 IC8810	8820	
8872 8830		RV8816 RV8815 RV8817
8873 IC8811		RV8814
IC8812 8831	8821	RV8832
IC , Q	D	ADJ

— M Board —



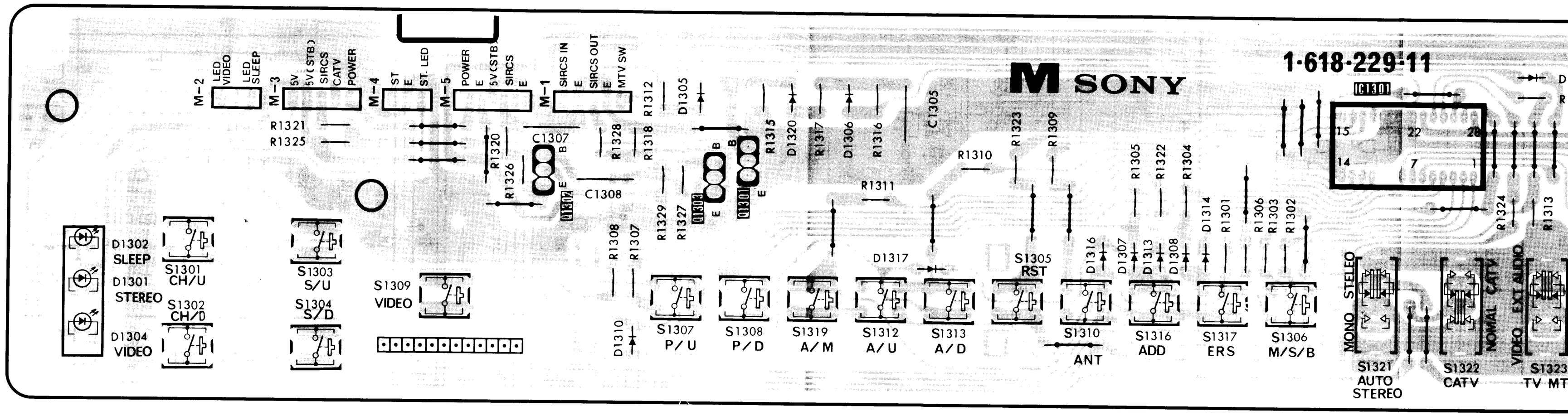
— J Board —



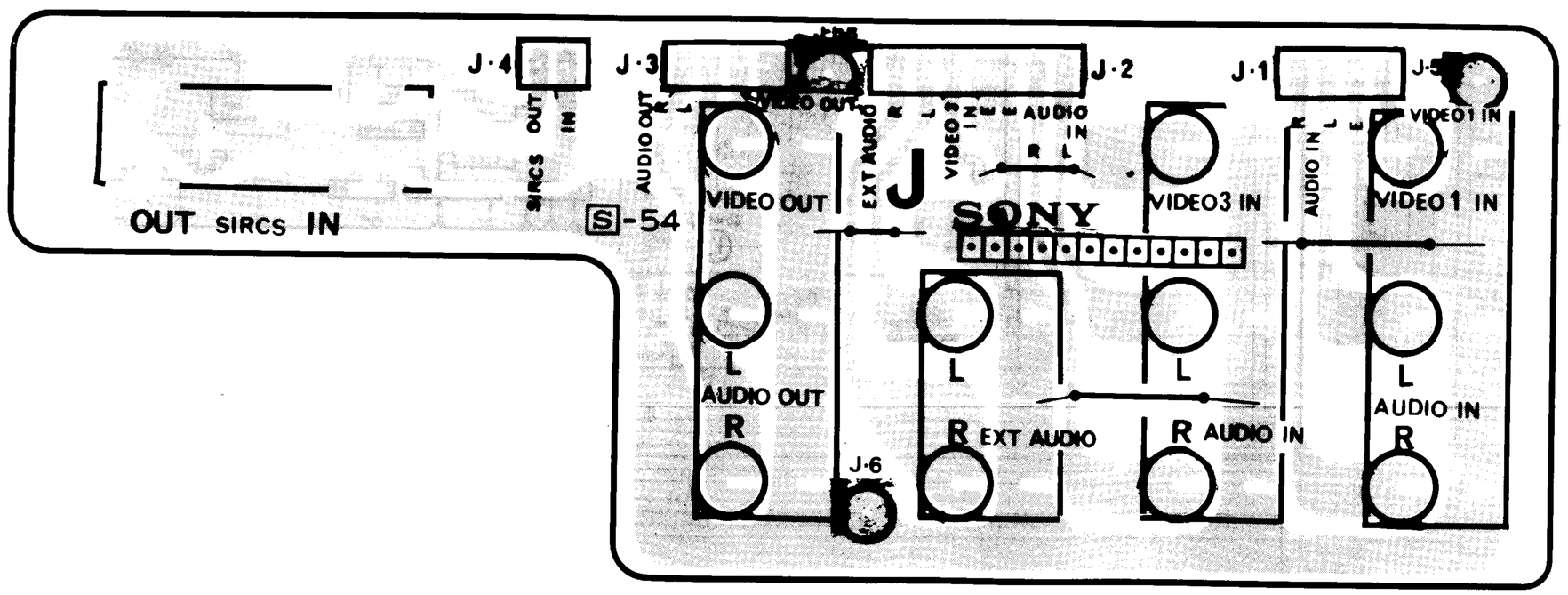
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

	D	ADJ
8008		
8030		
		RV8002 RV8001
8022 8023		
8010		
8009		RV8812
		RV8811
8820		
		RV8816
		RV8815
		RV8817
		RV8814
		RV8832
8821		
	D	ADJ

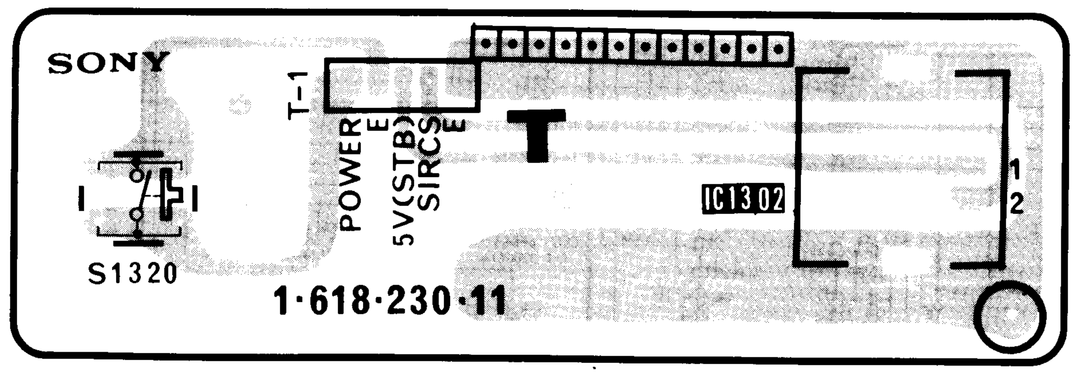
— M Board —



— J Board —



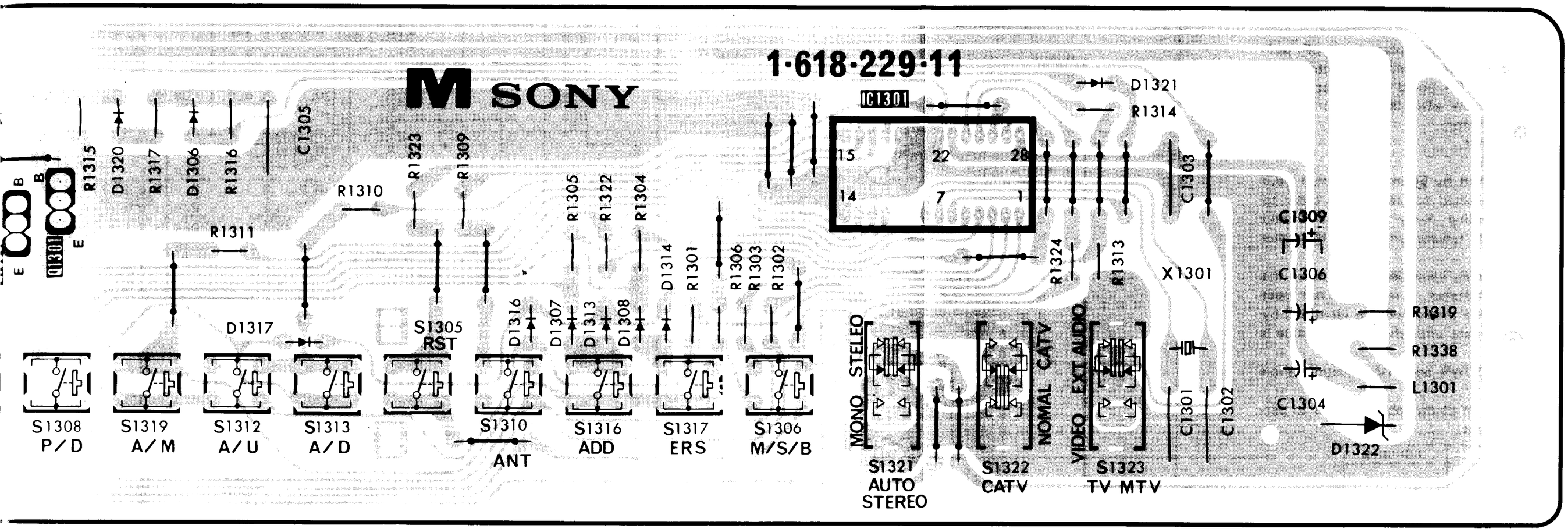
— T Board —



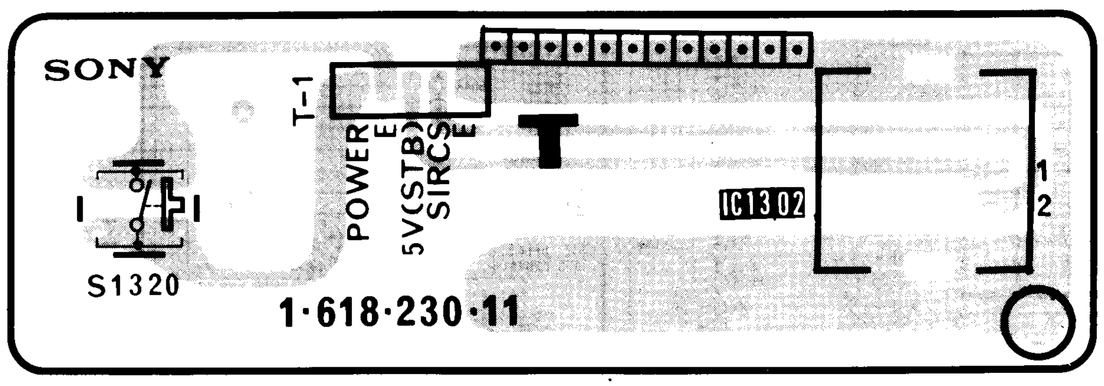
ER M M T [POWER SW
REMOCON RECEIVE]

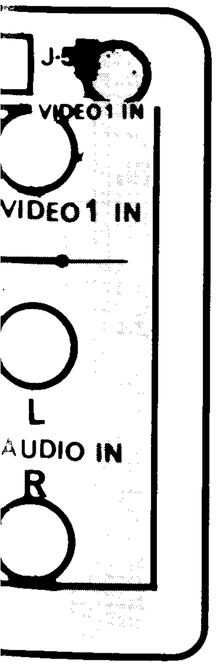
19 20 21 22 23 24 25 26 27 28 29 30

A B C D E F G H I J



— T Board —





KPR-36XBR
RM-736/APM-X4

KPR-36XBR
RM-736/APM-X4

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

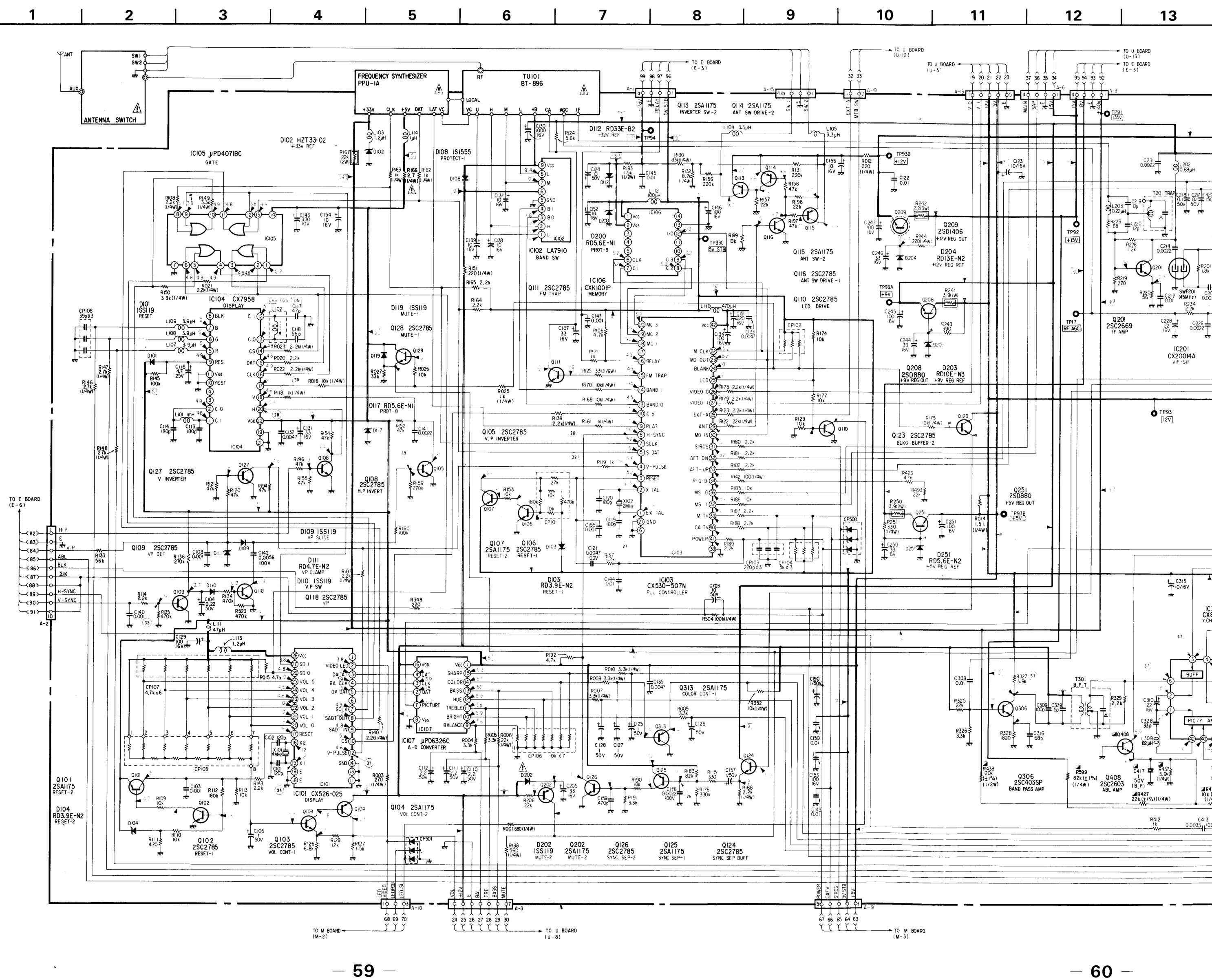
Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- Resistors on G board and BA board are ¼W, and those on all other board's are 1/6W. kΩ: 1000Ω, MΩ: 1000kΩ
- ⚠ : nonflammable resistor.
- △ : internal component.
- [ ] : panel designation.
- The components identified by ⚠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the spedified value, change the component identified by ◪ and repeat the adjustment until the specified value is achieved.
  (Refer to HV HOLD DOWN and HV adjustments on page 37 – 39).
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced		Adjustment
E board complete		
HV block IC5001, Q5001, D5002, D5046, R5020, R5021, R5022, R5024, R5027, R5119, R5216, R5217, R5218, R5219, R5220, R5221, R5297	in E board	HV HOLD DOWN ADJUSTMENT (R5217, R5218)
E board complete Deflection yoke Switching regulator F.B.T C5037, C5038, C5039 C5058, C5059, C5060 C5064, C5119, C5198 L5004, L5005, L5009 L5010, R5066, R5096 R9001, R9002, R9003 R9004, R9005, R9006 C9001, C9002, C9003 C9004, C9005, C9006	in E board	HV ADJUSTMENT C5119
When replacing the following components, make the BEAM CURRENT PROTECTOR C5151, D5027, D5027, D5028, D5034, D5060 D5062, Q5020, R5021 R5022, R5024, R5222 R5223, R5224, R5226 R5227, R5242, R5281	in E board	BEAM CURRENT PROTECTOR ADJUSTMENT D5027
C417, Q408, R427 R431, R437, R438 R599	in A board	

- **All variable and adjustable resistors have characteristic curve B, unless otherwise noted.**
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10MΩ digital multimeter.
- ◪ : adjustment for repair.
- Readings are taken with a color-bar signal input.
  no mark : Normal
  ( ) : Color bar video signal received
- Voltage variations may be noted due to normal production tolerances.
- ▭ : B+ bus.
- ▭ : B- bus
- Circled numbers are waveform references.



10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

TO U BOARD (U-12)
TO U BOARD (U-5)
TO U BOARD (U-13)
TO E BOARD (E-3)
TO U BOARD (U-6)
TO U BOARD (U-3)

D205 ISS119 AGC
IC202 CX20139 PLL DET
IC201 CX20014A VIF·SIF
Q201 2SC2669 IF AMP
Q204 2SC2785 HOOK UP-1
Q205 2SA1175 HOOK UP-2
Q206,207 2SC2785 HOOK UP-3,4
Q301 2SC2785 VIDEO BUFF
Q302 2SC403SP VIDEO AMP
Q303 2SC2785 CHROMA BUFF
Q310 2SC403SP Y BUFFER-1
Q311 2SC2785 Y BUFFER-2
Q304 2SC2785 Y BUFF-3
Q305 2SC2785 Y BUFF-4
Q309 2SC403SP Y AMP
Q209 2SD1406 +12V REG OUT
D204 RD13E-N2 +12V REG REF
Q208 2SD880 +9V REG OUT
D203 RD10E-N3 +9V REG REF
Q123 2SC2785 BLKG BUFFER-2
Q251 2SD880 +5V REG OUT
D251 RD5.6E-N2 +5V REG REF
Q411-413 2SA1175 R.G.B BUFFER
Q403 2SA1175 PIX CONT
Q422 2SA1175 R BIAS
Q419-421 2SD789 SHADING(R.G.B)
Q416-418 2SC R.G.B DRIVE
Q426 2SA1175 G BIAS
Q404-406 2SC2785 R.G.B DRIVE BUFFER
Q423 2SA1175 B BIAS
D402 ISS119 GAMMA
IC301 CX848 Y.CHROMA
Q306 2SC4035P BAND PASS AMP
Q408 2SC2603 ABL AMP
Q430 2SA1175 PIX MUTE
D406 ISS119 PROTECTOR-6
D411 ISS119 PIX MUTE
IC302 CX20125 PEDESTAL CLAMP

TP93B +12V
TP93A +9V
TP92 +15V
TP17 RF AGC
TP91 +35V
TP93 12V
TP938 +5V
TP22 MPX OUT
TP12 DET OUT
TP50
TP49 COL
TP16 R-OUT
TP15 G-OUT
TP15A B-OUT

THERMAL PROTECT
TV OUT
VIDEO IN

CP500
CP404 RD13E-Bx3
CP409 22×X3

TO M BOARD (M-3)

A TUNER, VIF, SIF
Y CHROMA, SYNC DET
SYNC SEP

KPR-36XBR
RM-736/APM-X4

19 20 21 22 23 24 25 26 27 28 29 30 31

A B C D E F G H I J

TO U BOARD (U-3)
18 17
A-11
TV OUT
VIDEO IN

Q303 2SC2785 CHROMA BUFF
Q310 2SC403SP Y BUFFER-1
Q311 2SC2785 Y BUFFER-2
Q304 2SC2785 Y BUFF-3
Q305 2SC2785 Y BUFF-4
Q301 2SC2785 VIDEO BUFF
Q206,207 2SC2785 HOOK UP-3,4
Q205 2SA1175 HOOK UP-2
Q302 2SC403SP VIDEO AMP
Q309 2SC403SP Y AMP

Q422 2SA1175 R BIAS
Q419-421 2SD789 SHADING(R.G.B)
Q416-418 2SC R.G.B DRIVE
Q426 2SA1175 G BIAS
Q423 2SA1175 B BIAS
Q404-406 2SC2785 R.G.B DRIVE BUFFER
D402 ISS119 GAMMA
CP404 RD13E-Bx3
CP109 22Kx3

IC302 CX20125 PEDESTAL CLAMP
PEAK HOLD
CLAMP
BLK INPUT
OUT
IN

TP14 (R-OUT)
TP15 (G-OUT)
TP16A (B-OUT)

A [TUNER, VIF, SIF
Y CHROMA, SYNC DET
SYNC SEP]

TO FOCUS PACK (137) CR-4
TO E BOARD (E-19) (125)(126)(127)(128) CR-1
+200V
+12V (73) GND (74) RED (75) CR-2
(138) TO FOCUS PACK
SG701
SD-174 (R) PICTURE TUBE
CR-3 CHASSIS EARTH
143 TO H.V BLOCK
D701 ISS119 STOPPER
Q701 2SC2611 R VIDEO OUT
CR (R-OUT)

TO FOCUS PACK (139) CG-4
TO E BOARD (E-21) (129)(130)(131)(132) CG-1
+200V
+12V (76) GND (77) GREEN (78) CG-2
(140) TO FOCUS PACK
SG721
SD-174 (G) PICTURE TUBE
CG-3 CHASSIS EARTH
144 TO H.V BLOCK
D721 ISS119 STOPPER
Q721 2SC2611 G VIDEO OUT
CG (G-OUT)

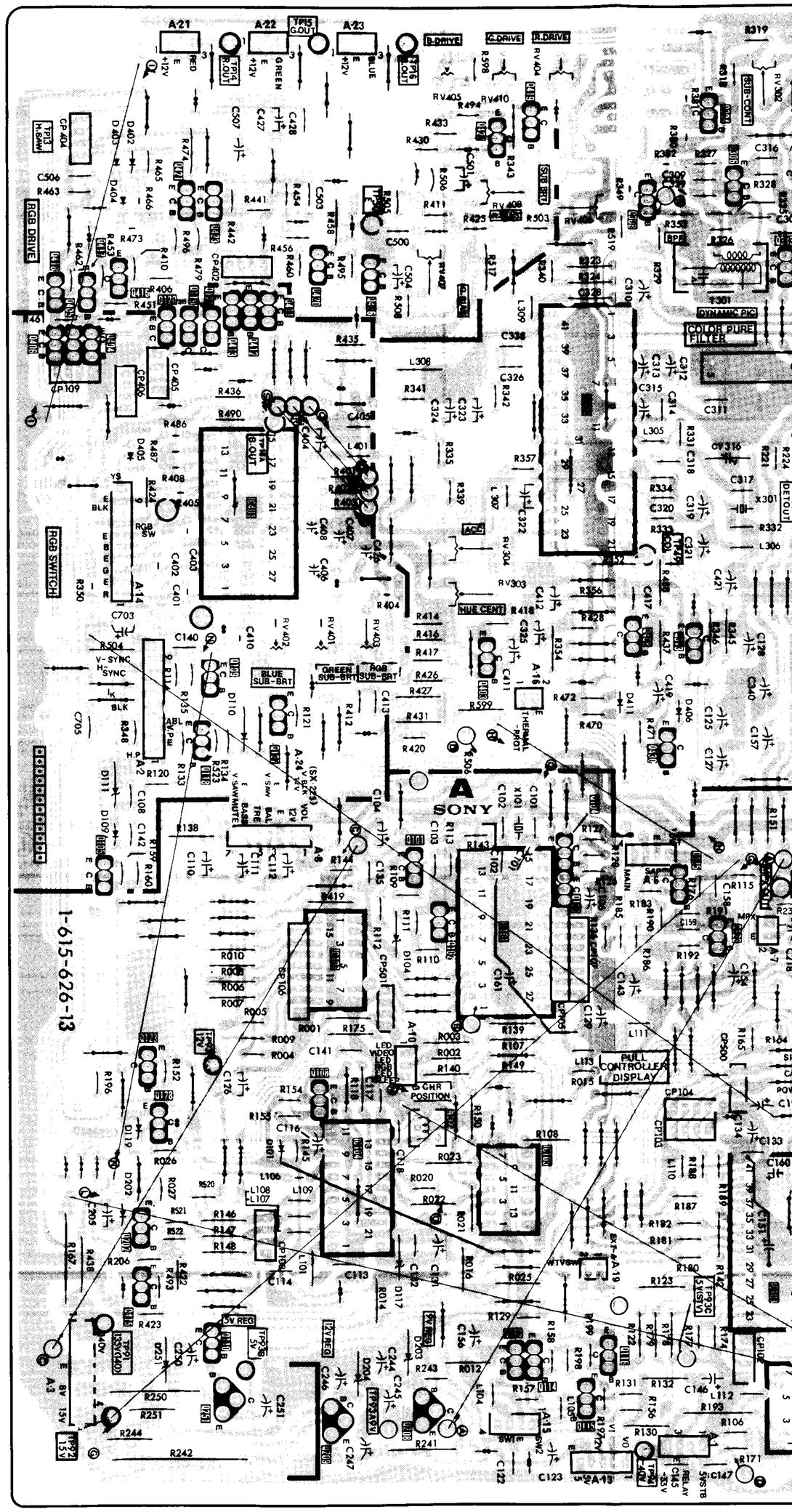
TO FOCUS PACK (141) CB-4
TO E BOARD (E-23) (133)(134)(135)(136) CB-1
+200V
+12V (79) GND (80) BLUE (81) CB-2
(142) TO FOCUS PACK
SG741
SD-174 (B) PICTURE TUBE
CB-3 CHASSIS EARTH
145 TO H.V BLOCK
D741 ISS119 STOPPER
Q741 2SC2611 B VIDEO OUT
CB (B-OUT)

1	2	3	4	5	6	7	8	9	10	11

A
B
C
D
E
F
G
H
I
J

(23) 2.4Vp-p (H)	(32) 5.6Vp-p (V)	(41) 4Vp-p (H)	(50) 130Vp-p (H)
(24) 2.8Vp-p (H)	(33) 1.5Vp-p (V)	(42) 5Vp-p (H)	(51) 1.4Vp-p (H) TV, VIDEO
(25) 1.75Vp-p (H)	(34) 6.4Vp-p (4MHz)	(43) 4.6Vp-p (H)	
(26) 5.6Vp-p (H) TV	(35) 0.3Vp-p (14.3MHz)	(44) 4Vp-p (H)	
(27) 5.2Vp-p (2MHz)	(36) 0.46Vp-p (H)	(45) 2.6Vp-p (H)	
(28) 5.6Vp-p (H)	(37) 0.46Vp-p (H) TV, VIDEO	(46) 3.4Vp-p (N)	
(29) 0.6Vp-p (V)	(38) 0.046Vp-p (H)	(47) 0.85Vp-p (H)	
(30) 5.6Vp-p (V)	(39) 4.8Vp-p (H)	(48) 145VVp-p (H)	
(31) 5.7Vp-p (H)	(40) 3.2Vp-p (H)	(49) 110Vp-p (H)	

— A Board —

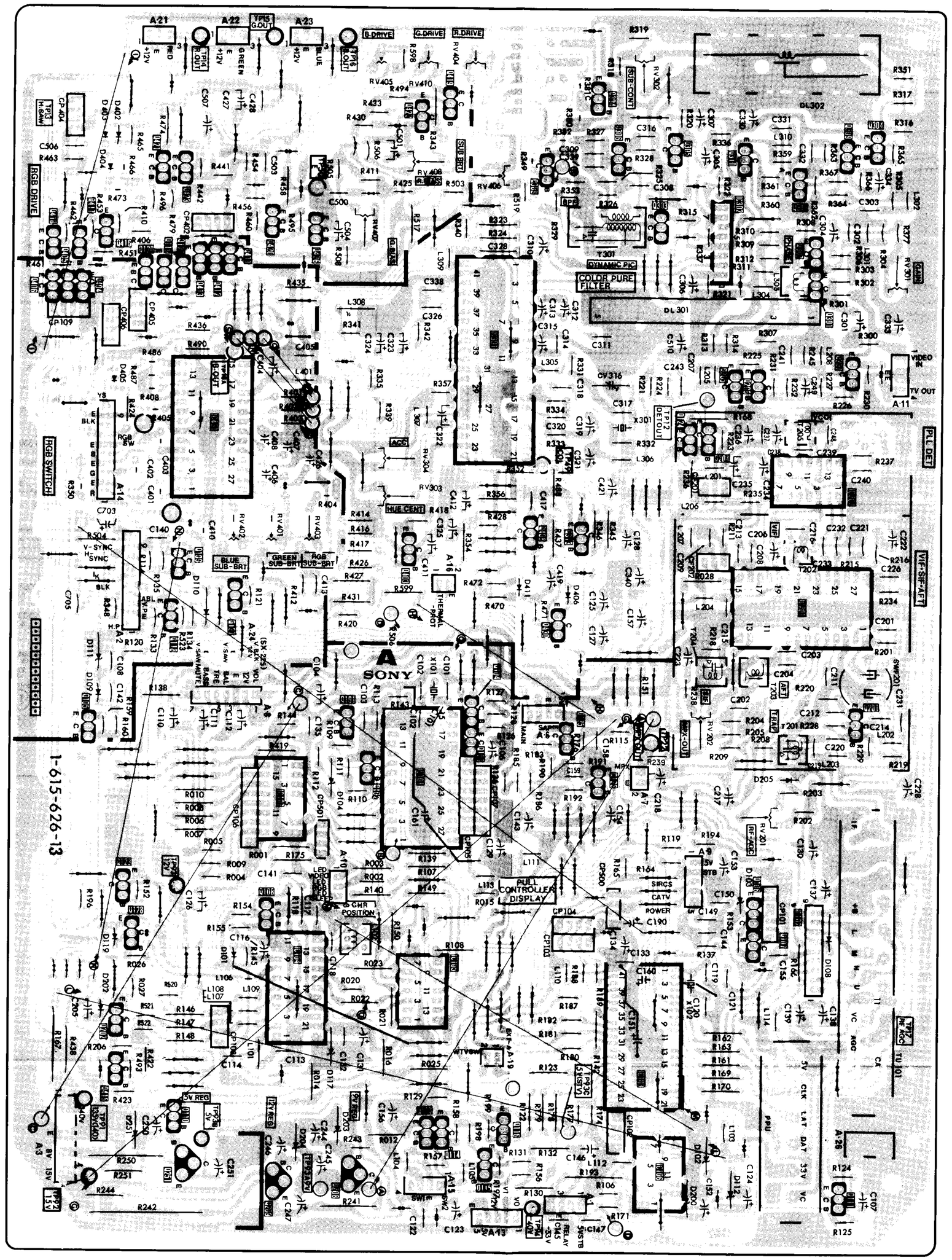


6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

130Vp-p (H)

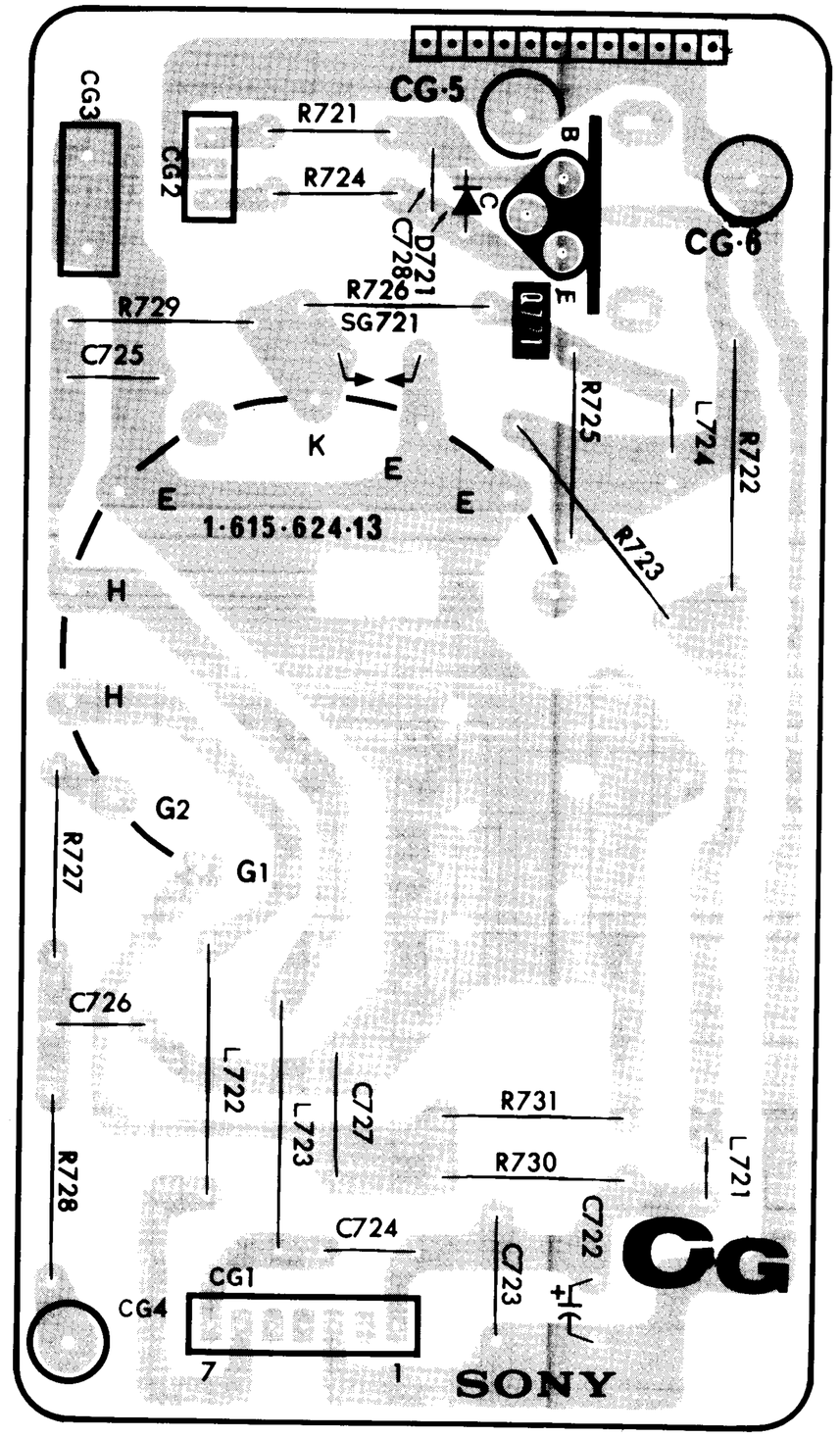
4Vp-p (H) TV, VIDEO

— A Board —

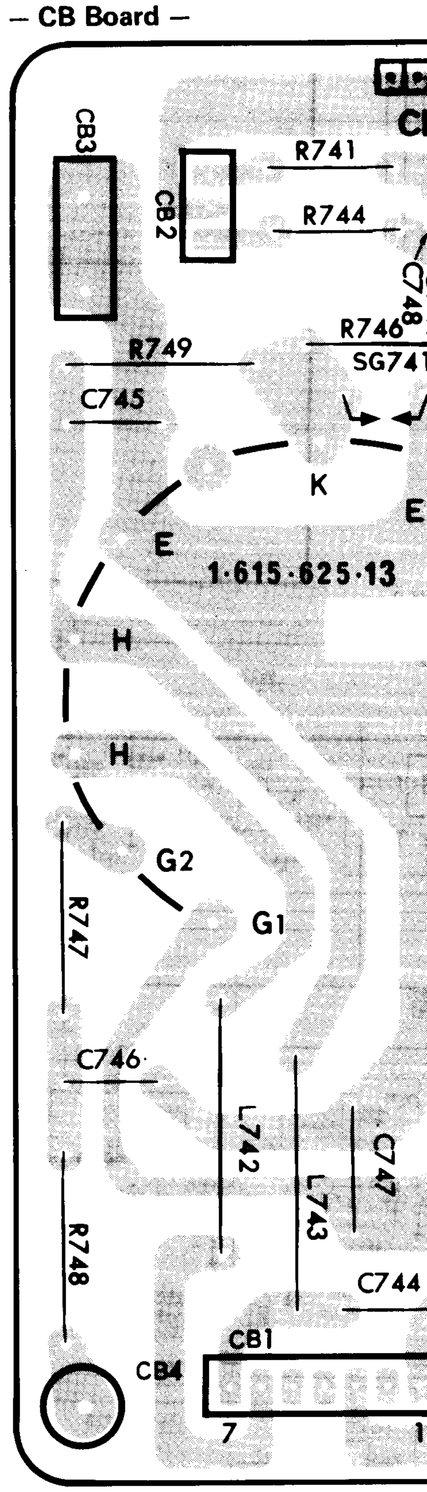


IC, Q	D	ADJ	TP
			TP14 TP15 TP16
		RV410 RV404 RV302	
419			
422			TP13
305 304	402		
306 310 309		RV408	TP50
421 423		RV406	
311			
420		RV407	
426 303			
416 IC302			
417 412			
418 411 302			
413			
301		RV301	
406,405,404			
IC301			
207			
205 206			TP16A
			TP12
124 204			
IC202		RV304	TP49
		RV303	
408 313			
403			
109			
127	411 406		
IC201			
118	110		
430			
	111		
	109		
104			
101 201		RV202	TP22
105 125 103			
102			
IC101 126	104 205		
IC107		RV201	
			TP93
123	103		
108 106			
IC102			
128 107	119 108		
	101		
IC104 IC105			
202	202		TP17
IC103			
	117		TP93C
110			
113 114 116	203		TP93B TP91
251	204		
IC106 115	102		TP93A
209 208			
111	112		TP92
	200		TP94
IC, Q	D	ADJ	TP

— CG Board —



— CB Board —



KPR-36XBR
RM-736/APM-X4

TUNER, VIF, SIF
Y CHROMA, SYNC DET
SYNS SEP

A

CG [G·OUT]

CB [B·OUT]

[R·OUT] **CR**

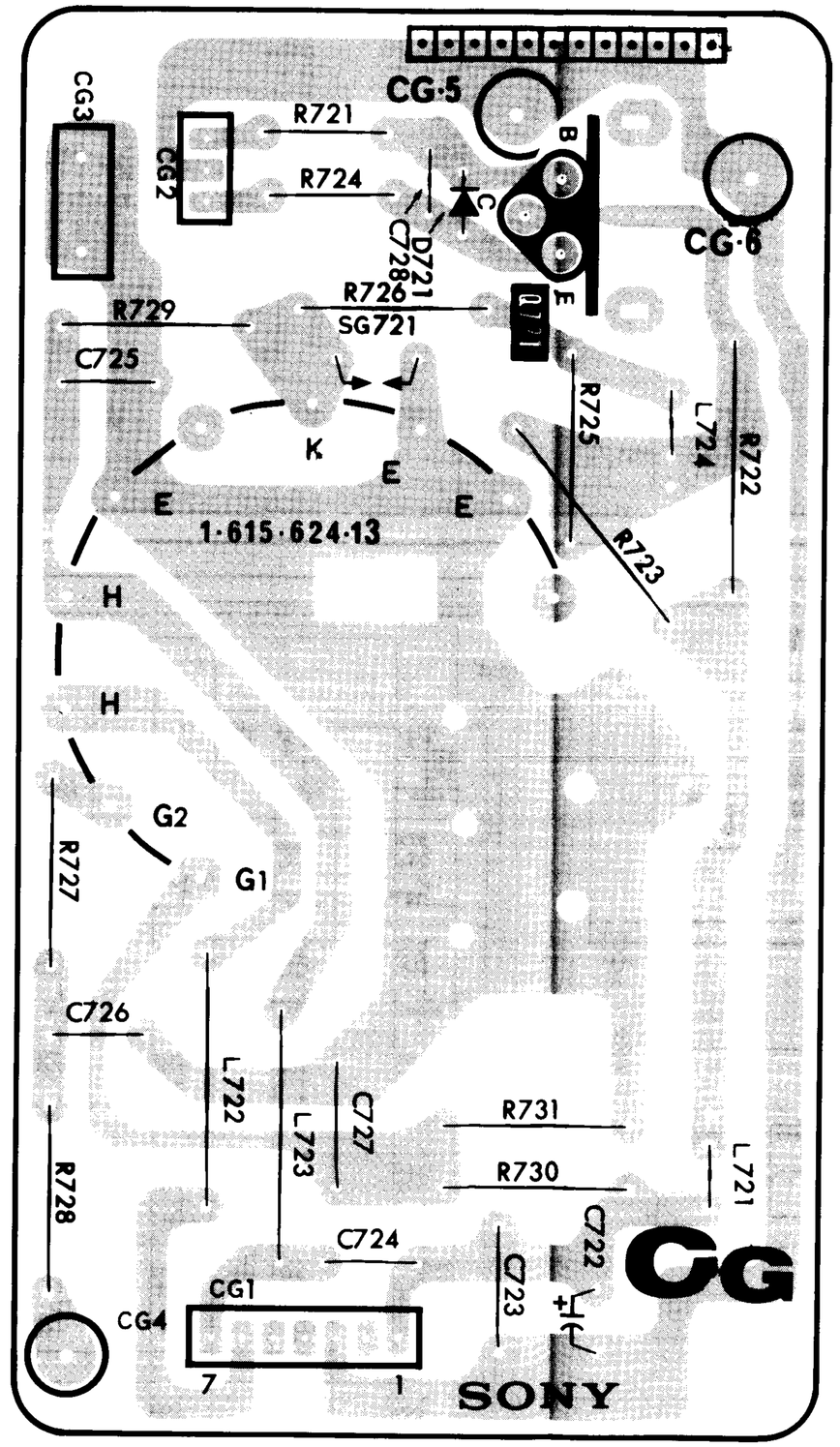
KPR-36XBR
RM-736/APM-X4

14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

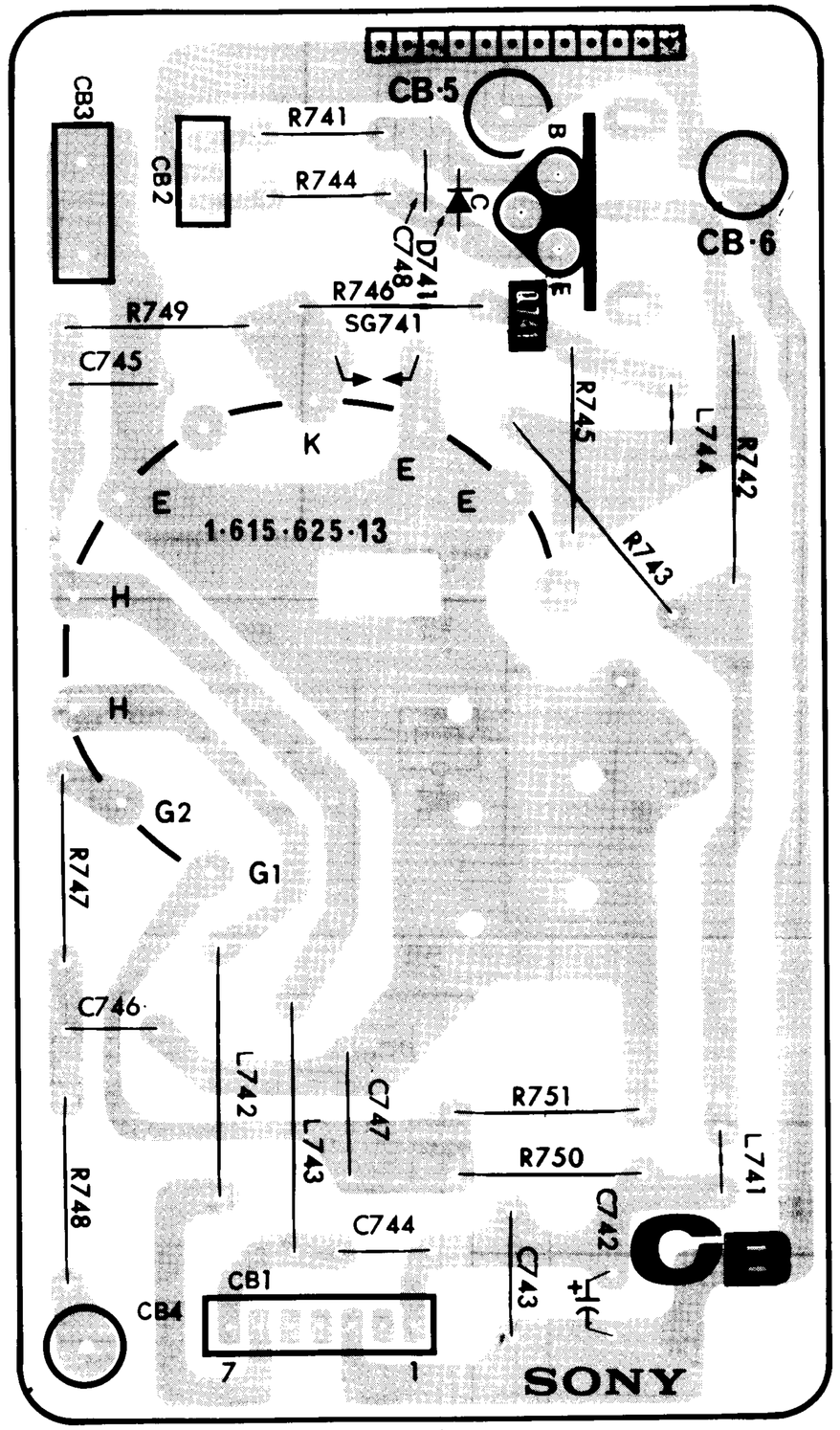
A B C D E F G H I J

IC , Q	D	ADJ	TP
			TP14 TP15 TP16
		RV410 RV404 RV302	
419 422			TP13
305 304 306 310 309 421 423 311	402	RV408 RV406	TP50
420 426 303 416 IC302 417 412 418 411 302 413		RV407	
301 406,405,404		RV301	
IC301			
207 205 206			TP16A TP12
124 204		RV304	TP49
IC202		RV303	
408 313 403 109 127 IC201 118 430	411 406 110 111		
104 101 201 105 125 103 102 IC101 126 IC107	109 104 205	RV202 RV201	TP22 TP93
123 108 106 IC102 128 107	103 119 108 101		
IC104 IC105 202 IC103	202 117		TP17 TP93C
110 113 114 116 251 115 IC106 209 208 111	203 204 102 112 200		TP93B TP91 TP93A TP92 TP94
IC , Q	D	ADJ	TP

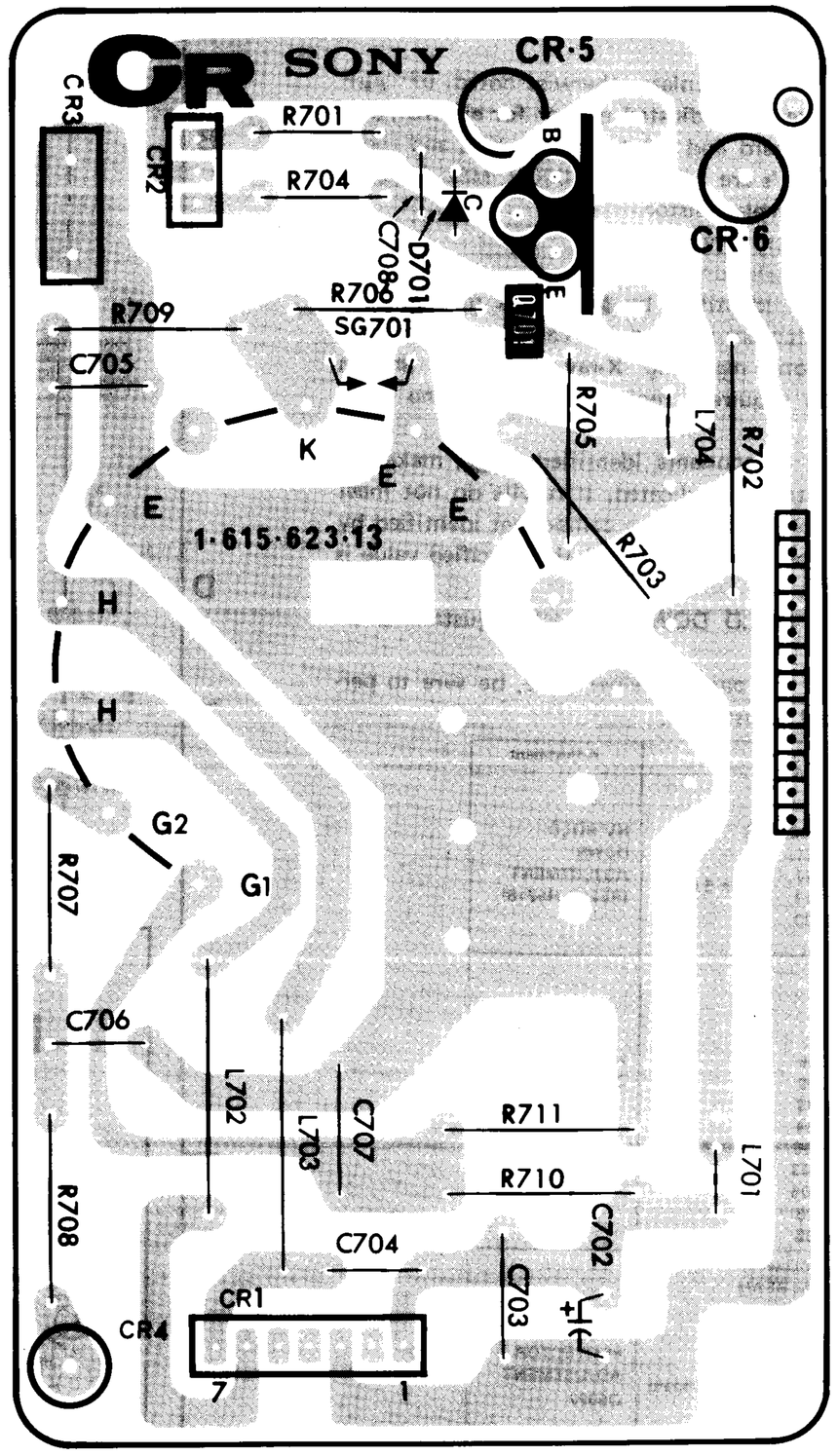
— CG Board —



— CB Board —



— CR Board —



KPR-36XBR
RM-736/APM-X4

KPR-36XBR
RM-736/APM-X4

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

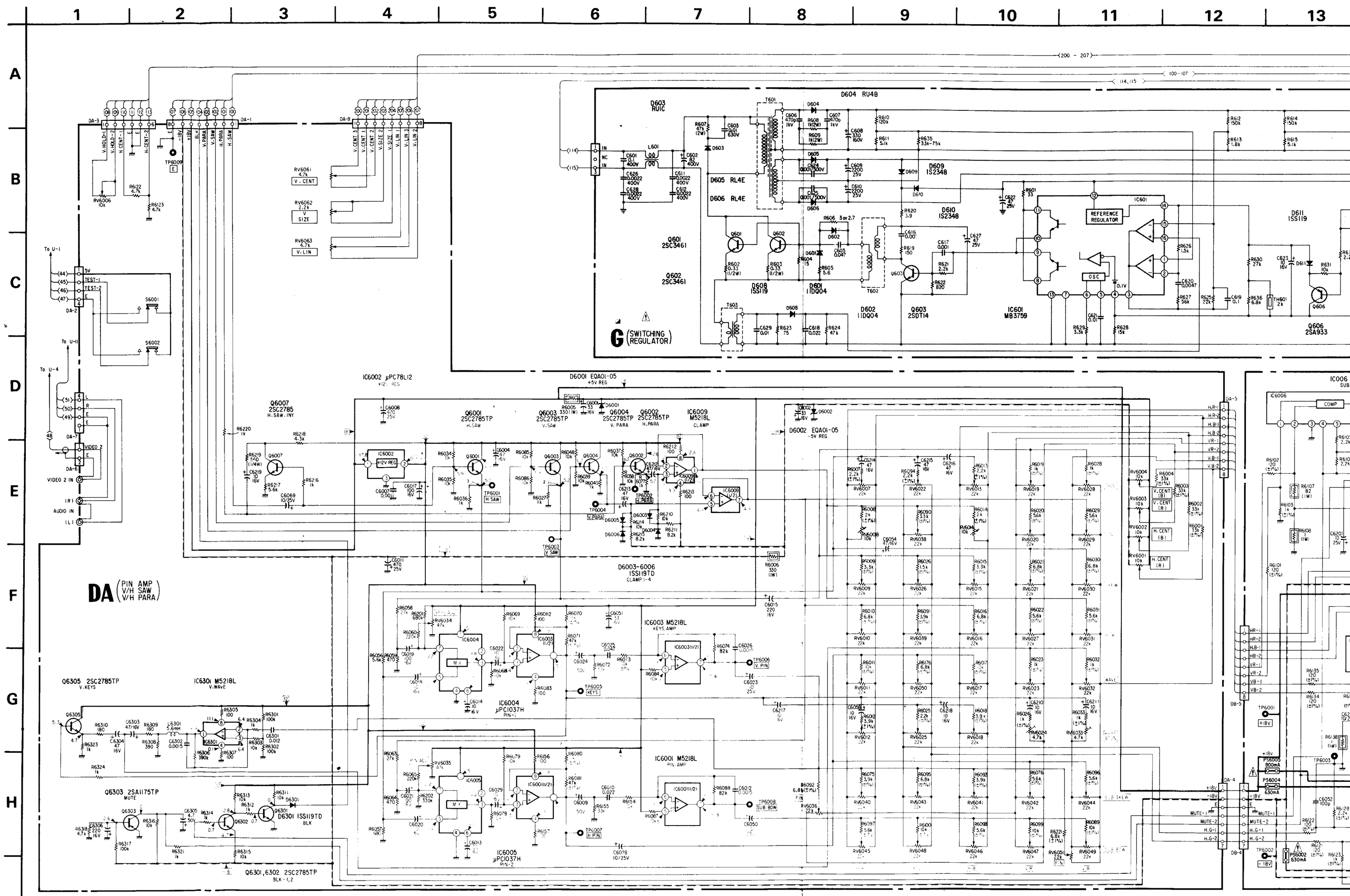
Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- Resistors on G board and BA board are ¼W, and those on all other board's are 1/6W. kΩ: 1000Ω, MΩ: 1000kΩ
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the spedified value, change the component identified by ◪ and repeat the adjustment until the specified value is achieved.
  (Refer to HV HOLD DOWN and HV adjustments on page 37 – 39).
- When replacing the part in below table, be sure to perform the related adjustment.

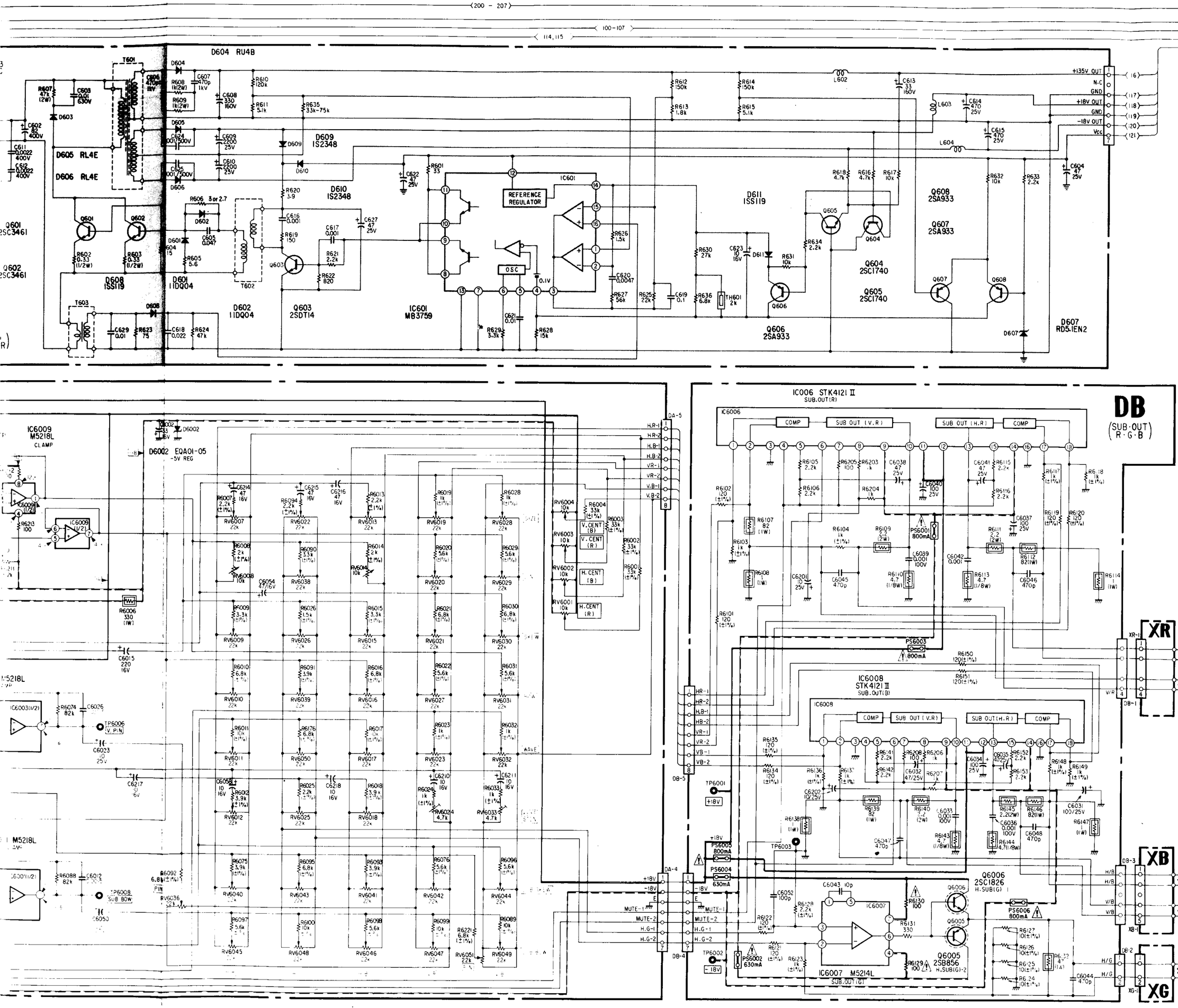
Part replaced	Adjustment
E board complete HV block IC5001, Q5001, D5002, D5046, R5020, R5021, R5022, R5024, R5027, R5119, R5216, R5217, R5218, R5219, R5220, R5221, R5297 } in E board	HV HOLD DOWN ADJUSTMENT (R5217, R5218)
E board complete Deflection yoke Switching regulator F.B.T C5037, C5038, C5039 C5058, C5059, C5060 C5064, C5119, C5198 L5004, L5005, L5009 L5010, R5066, R5096 R9001, R9002, R9003 R9004, R9005, R9006 C9001, C9002, C9003 C9004, C9005, C9006 } in E board	HV ADJUSTMENT C5119
When replacing the following components, make the BEAM CURRENT PROTECTOR C5151, D5027, D5027, D5028, D5034, D5060 D5062, Q5020, R5021 R5022, R5024, R5222 R5223, R5224, R5226 R5227, R5242, R5281 } in E board C417, Q408, R427 R431, R437, R438 R599 } in A board	BEAM CURRENT PROTECTOR ADJUSTMENT D5027

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10MΩ digital multimeter.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar signal input.
  no mark : Normal
  ( ) : Color bar video signal received
- Voltage variations may be noted due to normal production tolerances.
- ▭ : B+ bus.
- ▭ : B- bus.
- Circled numbers are waveform references.



KPR-36XBR
RM-736/APM-X4
KPR-36XBR
RM-736/APM-X4

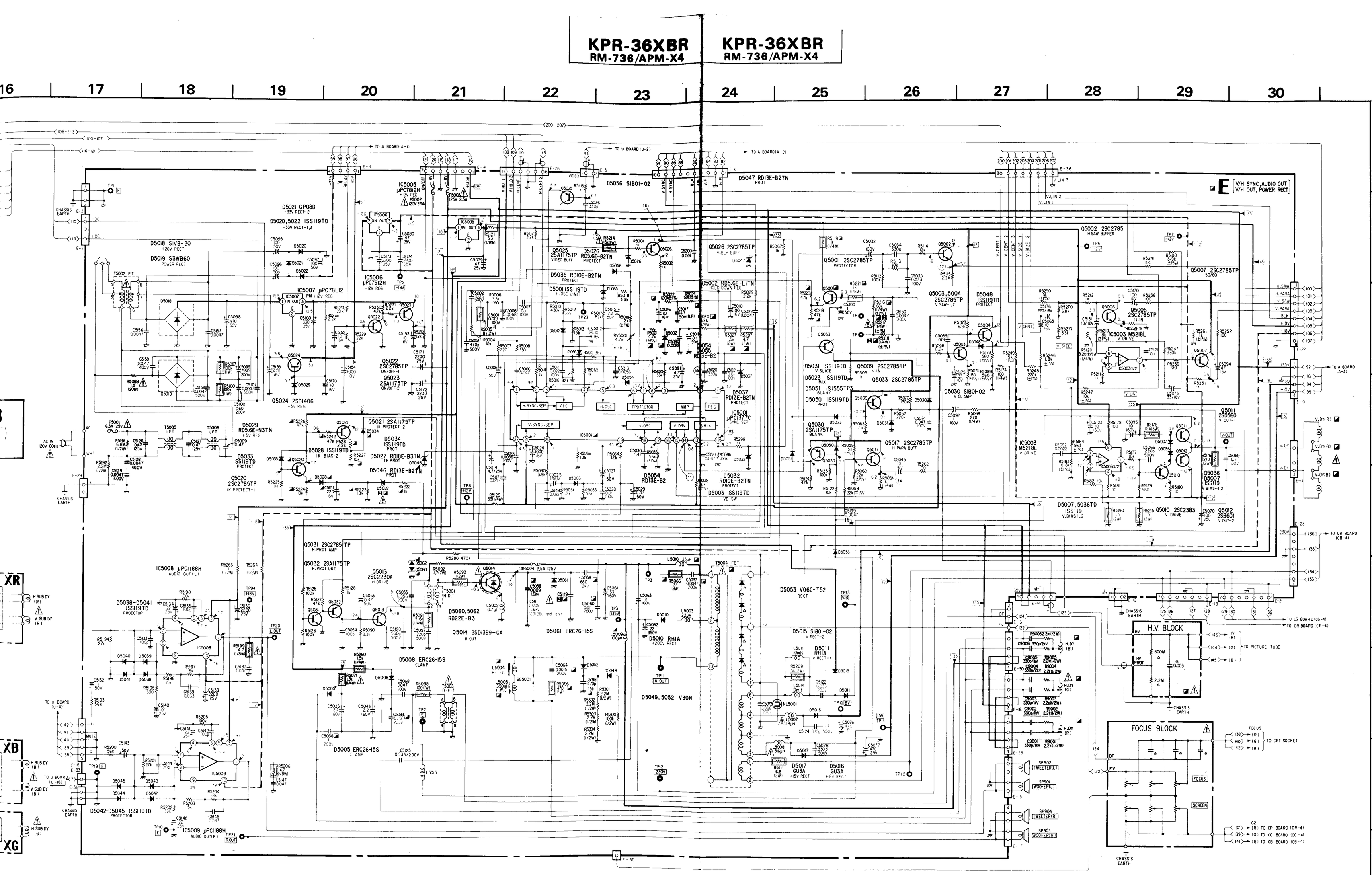
7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23



KPR-36XBR
RM-736/APM-X4

16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

A B C D E F G H I



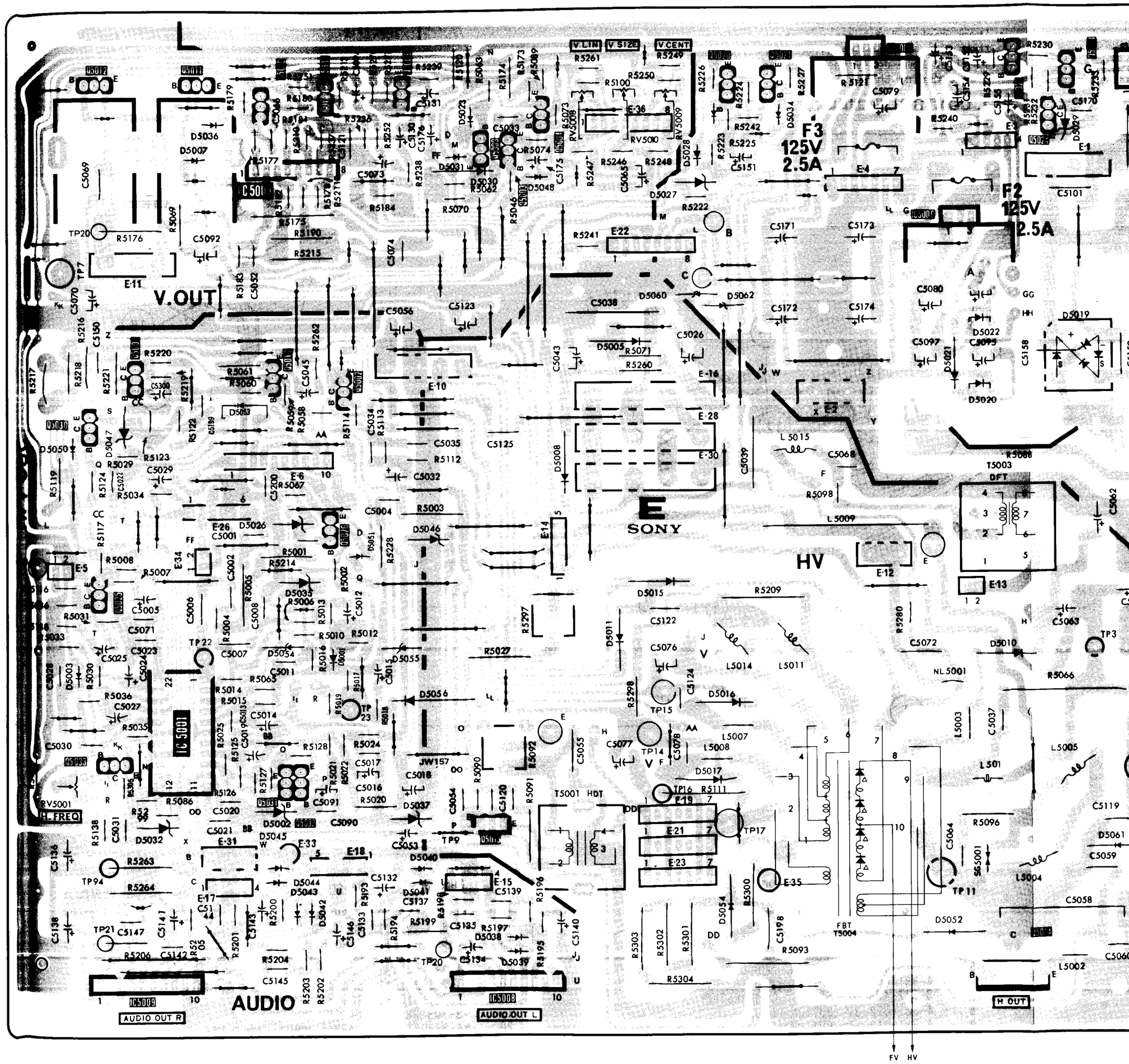
KPR-36XBR RM-736/APM-X4 **KPR-36XBR** RM-736/APM-X4

E [V/H SYNC, AUDIO OUT / V/H OUT, POWER RECT.]

1 2 3 4 5 6 7 8 9 10 11 12

A B C D E F G H I J

— E Board —



① 3Vp-p (V)

② 2.6Vp-p (V)

③ 3.5Vp-p (H)

④ 0.3Vp-p (H)

⑤ 12Vp-p (V)

⑥ TP-5, 3.0Vp-p (H)
2Vp-p (V)
TP-6 1.7Vp-p (H)

⑦ 5.8Vp-p (H)

⑧ 115Vp-p (H)

⑨ 1900Vp-p (H)

⑩ 0.96Vp-p (V)

⑪ 1.8Vp-p (V)

⑫ 40Vp-p (V)

⑬ 6.4Vp-p (H)

⑭ 3.2Vp-p (V)

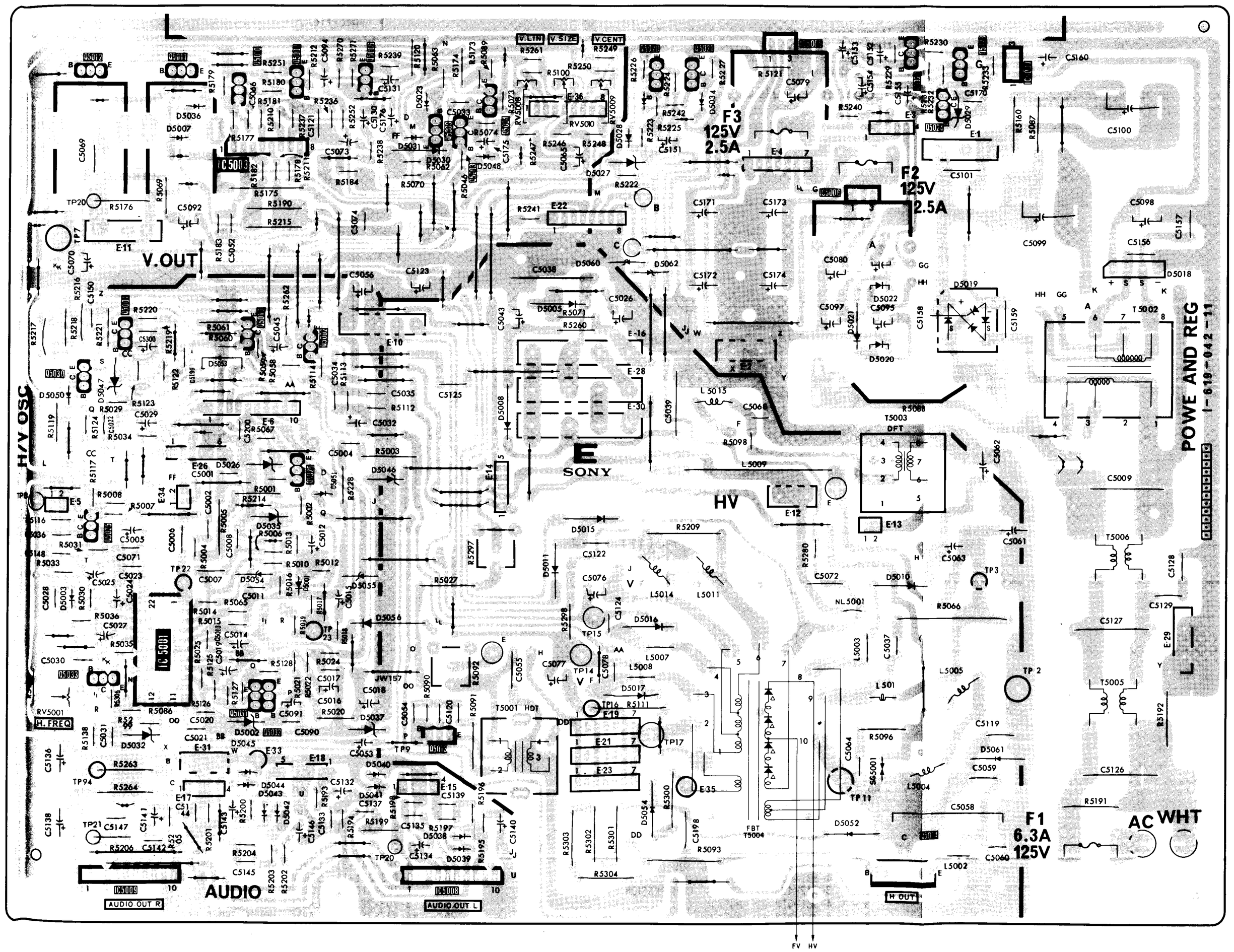
⑮ 3Vp-p (V)

⑯ 3.8Vp-p (H)

⑰ 24Vp-p (V)

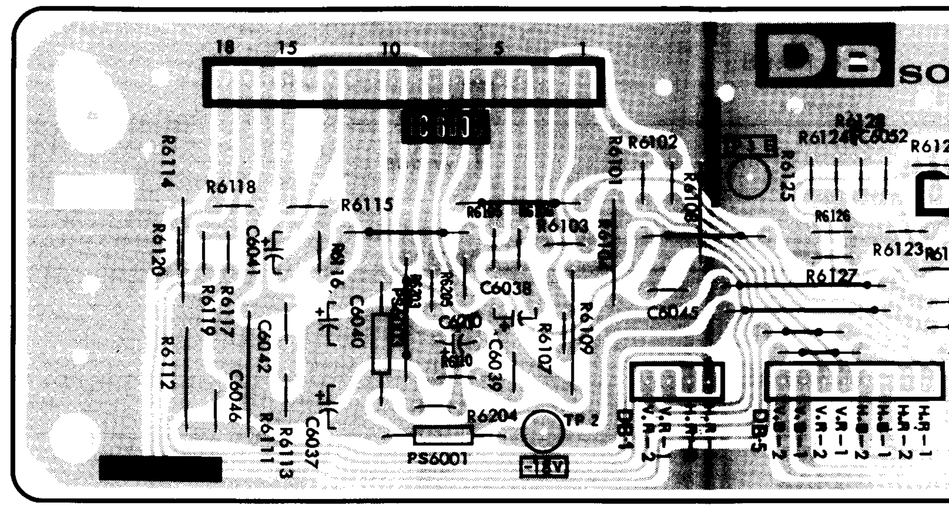
⑱ 12Vp-p (H)

— E Board —

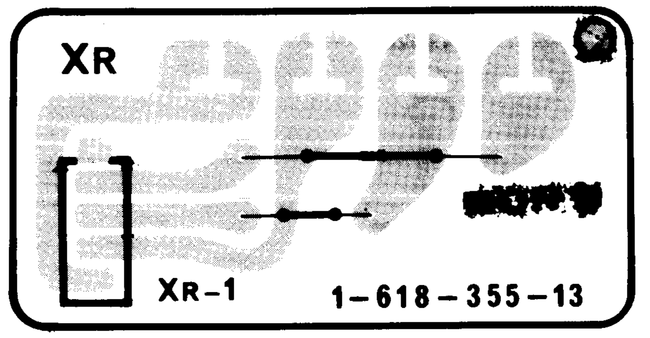


IC , Q	D	ADJ	TP
	5022		
	5023		
5020 5021		RV5008	
5012 5011		RV5100	
5001 5006		RV5009	
	5023 5034		
	5036 5029		
5009 5003			
	5031 5028		
IC5003	5007		
	5030		
	5048 5027		
			TP20
			TP7
	5060		
	5018		
	5062		
	5022		
	5005		
	5019		
5011 5017	5021		
5002	5053		
5030	5047		
	5050		
	5008		
5026	5026		
	5046		
	5051		TP8
	5035 5015		
5025			
	5011		
	5054 5055		TP3
	5001 5010		TP22
	5003		
	5056 5016		TP15
			TP23
IC5001			TP14
5033			TP2
5031	5017	RV5001	TP16
	5002		
	5037		TP17
5013	5032		
	5061		
	5045 5040		TP94
	5044 5041		TP11
	5054		
	5043 5042		
5014	5058		
	5039		TP20
IC5009 IC5008			
IC , Q	D	ADJ	TP

— DB Board —

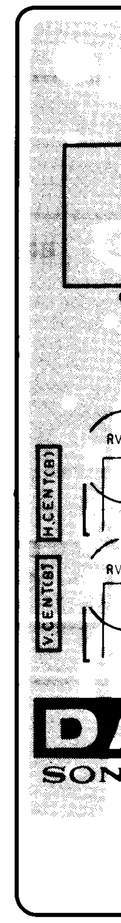


— XR Board —



— XB Board —

— DA B



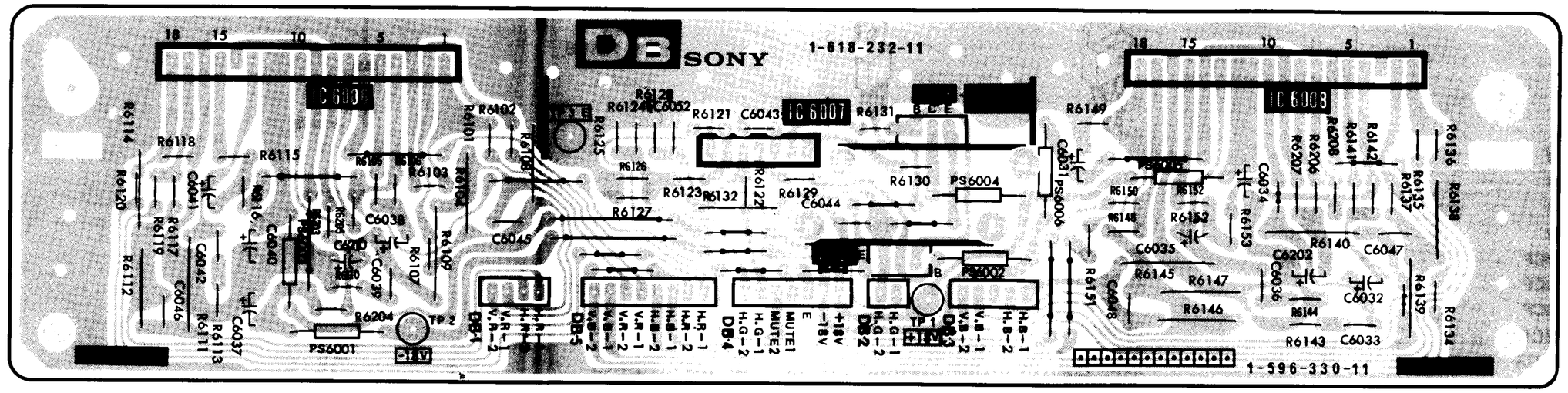
KPR-36XBR
RM-736/APM-X4

XR [SVB·OUT R·G·B] DB DB XB XG DA [PIN AMP V/H SAW, V/H PARA] G [SWITCHING REGULATOR]

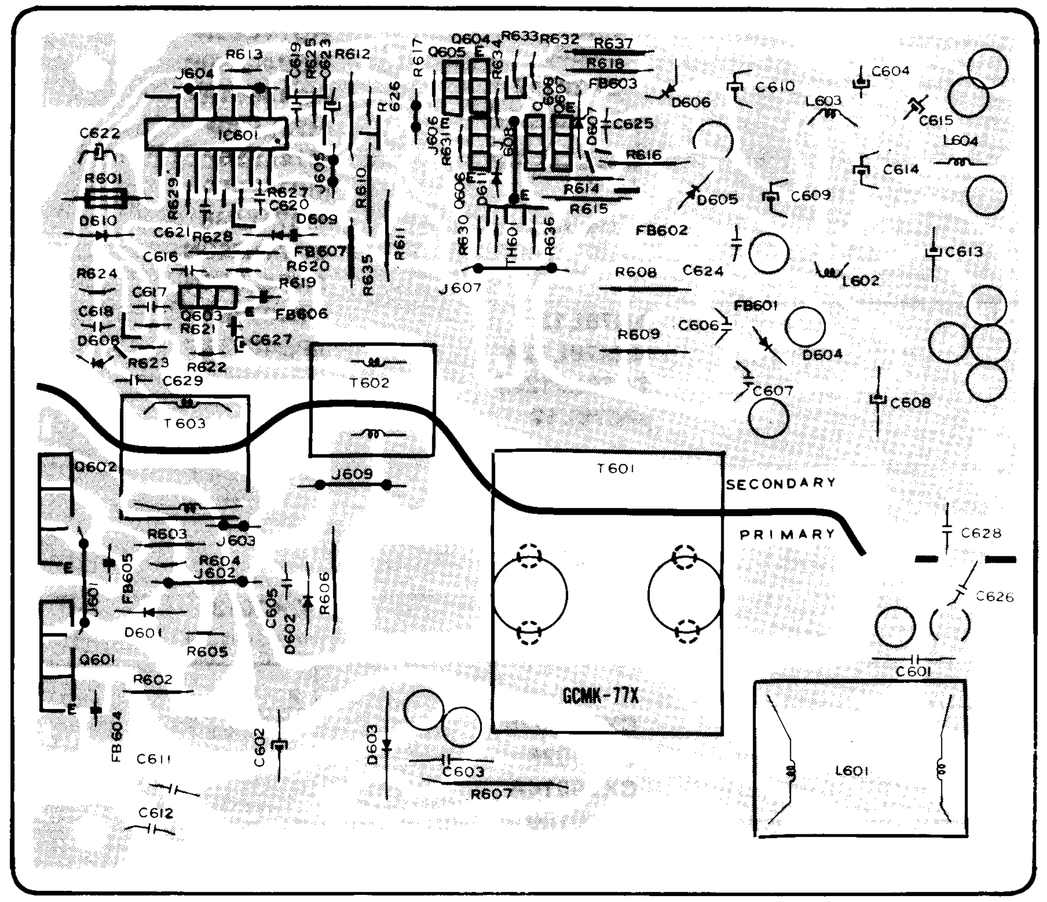
17 18 19 20 21 22 23 24 25 26 27 28 29 30

A B C D E F G H I J

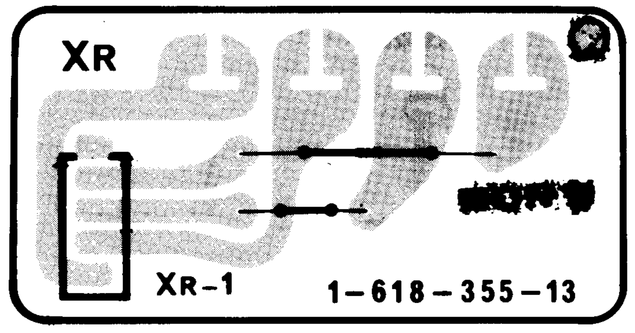
— DB Board —



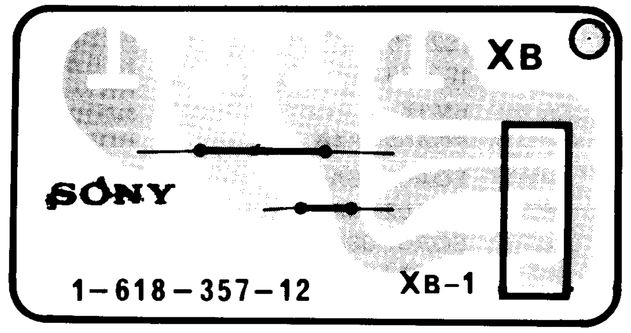
— G Board —



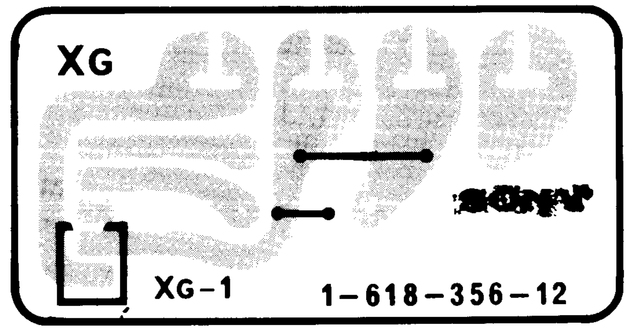
— XR Board —



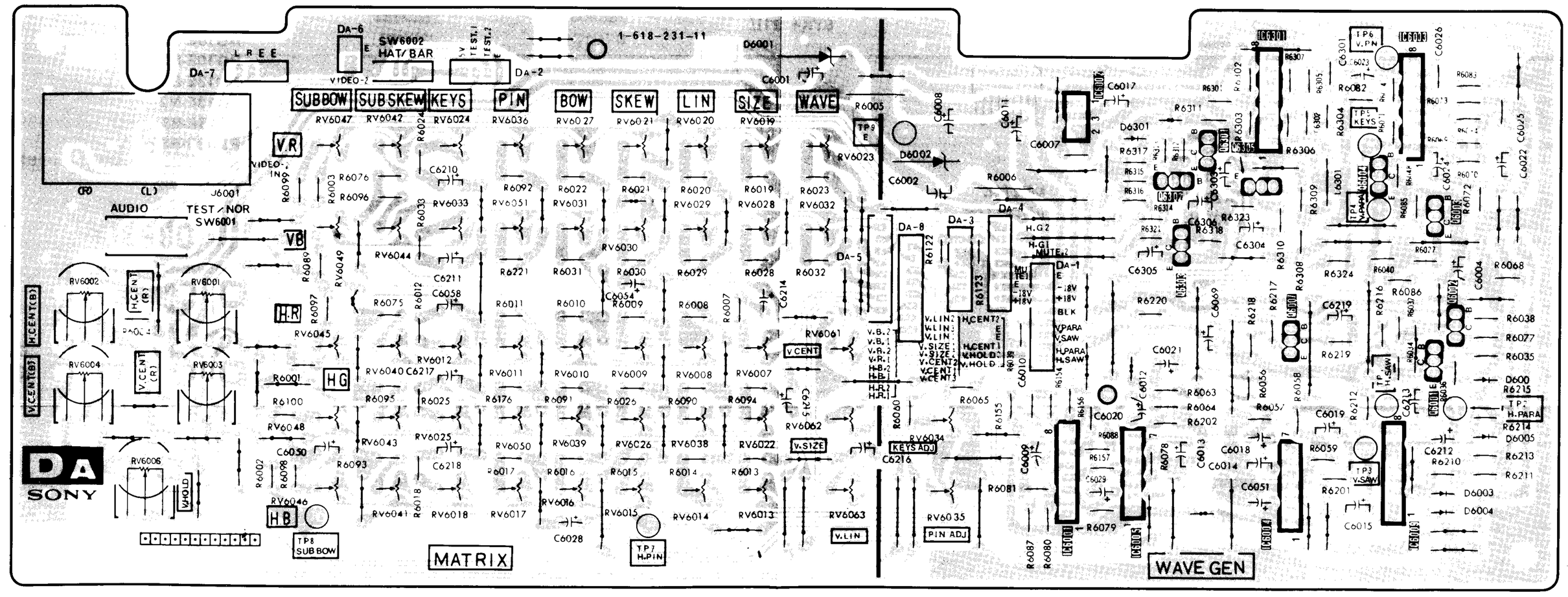
— XB Board —



— XG Board —



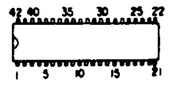
— DA Board —



KPR-36XBR
RM-736/APM-X4

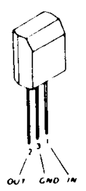
4-5. SEMICONDUCTORS

AN6291
CX847
CX848
CX20112

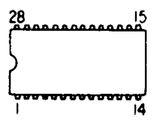


(Top view)

AN78L12
NJM78L12A
TA78L012AP
μPC78L12

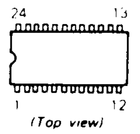


CX526-025
CX10026
CX20014A
CX20100



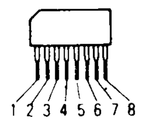
(Top view)

CX530-507N

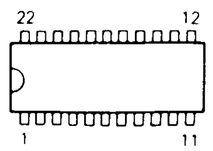


(Top view)

CX7948
CX20106
CX20106A
CX20125
M5218L



CX7958
μPC1377C



(Top view)

CXK1001P
HD74LS09P
HD74LS86P
HD14071BP
M74LS09P
M74LS86P
MB74LS09
MB74LS86
SN74LS09N
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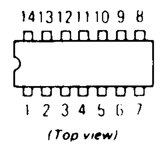
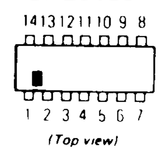
TC4071BP
μPD4071BC



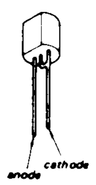
(Top view)

CX20139

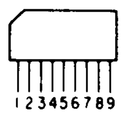


(Top view)

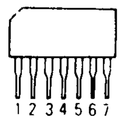
HZT33-02



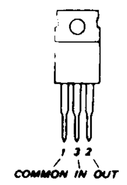
LA7910
M5218L



M5214L
μPC1037H



μPC7912H



HD14051BP
HD14052BP
HD14053BP
M4051BP
M4052BP
M4053BP
M4071BP
MB84051B
MB84052B
MB84053B
MB84071B
MC14051BCP
MC14052BCP
MC14053BCP
MC14071BCP
MSM4051BRS
MSM4052BRS
MSM4053BRS
MSM4071BRS
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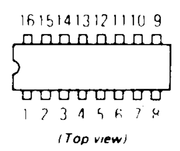
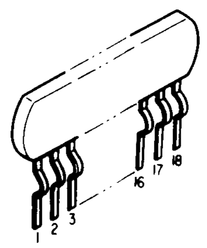
TC4052BP
TC4053BP
TC4071BP
μPD4051BC
μPD4052BC
μPD4053BC
μPD6326C

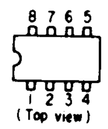


(Top view)

STK4121II

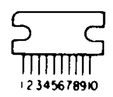


μPC4558C



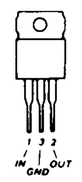
(Top view)

μPD1188H



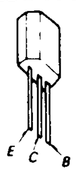
(Marking side view)

μPC7812H



2SA733
2SA933S
2SC1740S

2SA1026
2SC403C



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2SA1115
2SC2458
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2SC2669
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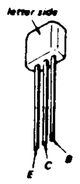
2SC403PS-3
DTC124ES

2SA1175
2SC2785
2SC2785-E
2SC2785-F



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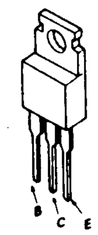

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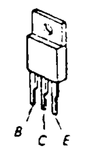
2SD313HP
2SD560
2SD880
2SD880-Y
2SD1406
2SD1406-Y



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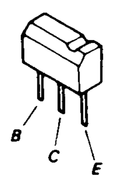

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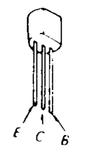
2SC2383
2SD789



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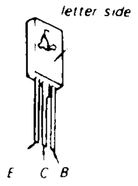
2SC2688
2SC3417
2SC3503



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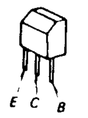

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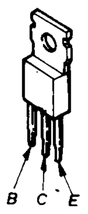

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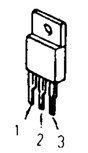

1N4148H
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1S2076
1S2473
EM1Z
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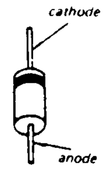
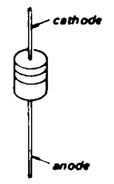
EQA02-06A
EQA02-06A5
EQA02-06B5
EQA02-06C5
EQA02-06D5
EQA02-09C5
EQA02-10B5
EQA02-32A
HZ4B3
HZ5B1
HZ6B2
HZ11A2
RD10E-B2
RD10E-N3
RD13E-B2
RD13E-N2
RD18E-B3
RD33E-B2
RD3.6E-N1
RD3.9E-N2
RD4.7E-N2
RD5.6E-B2
RD5.6E-L1
RD5.6E-N1
RD5.6E-N3
RD6.2E-N1
RD6.2E-N2
RD9.1E-N3
US1035



1SS119
1SS120
1SS133
1SS148
DTC 124ES



10E2
EQA01-05
EQA02-12B5
ERB12-02
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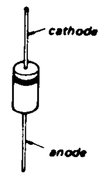
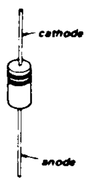
HZ4A2
HZ6A3
HZ6B3
HZ6C2
HZ9C1
HZ12B2
HZ33EB2
HZ5.6EB2
RH1A
RD22EB3
RD5.6EN2

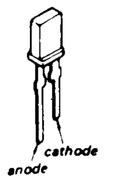


RH1A
SIB01-02

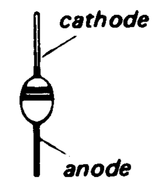


ERC26-15SA

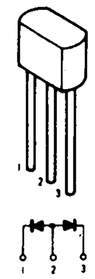
GL-9HY2
GL-9PR20



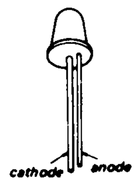
GU3A



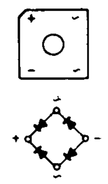
MC911



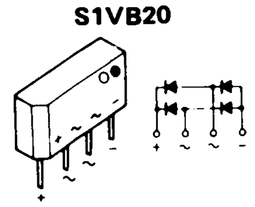
PH302B



RB406NH

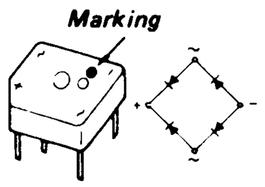


S1VB20

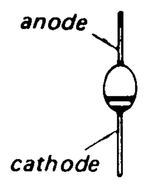


S3WB60S
S3WB60Z

Marking



V06C



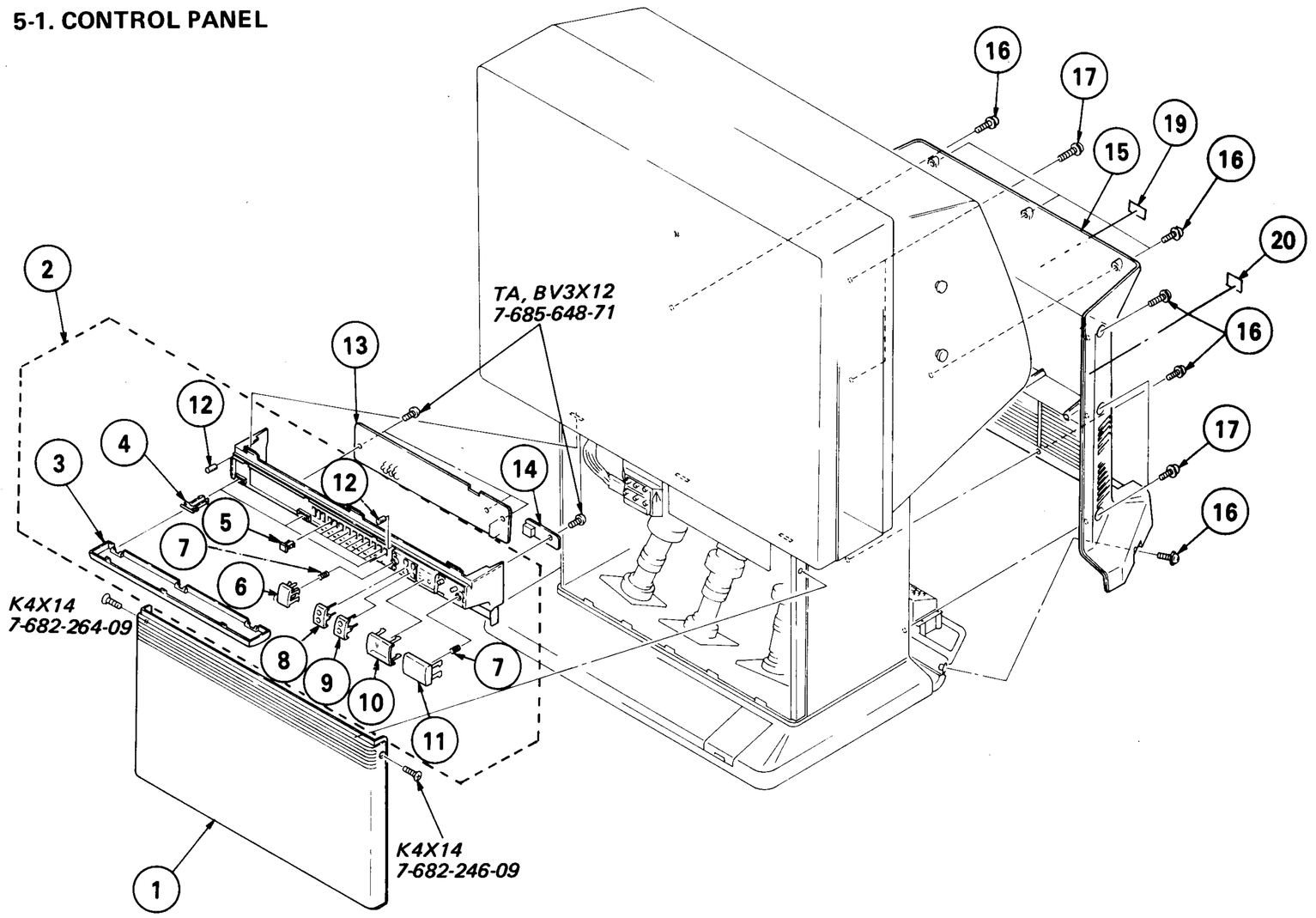
SECTION 5
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

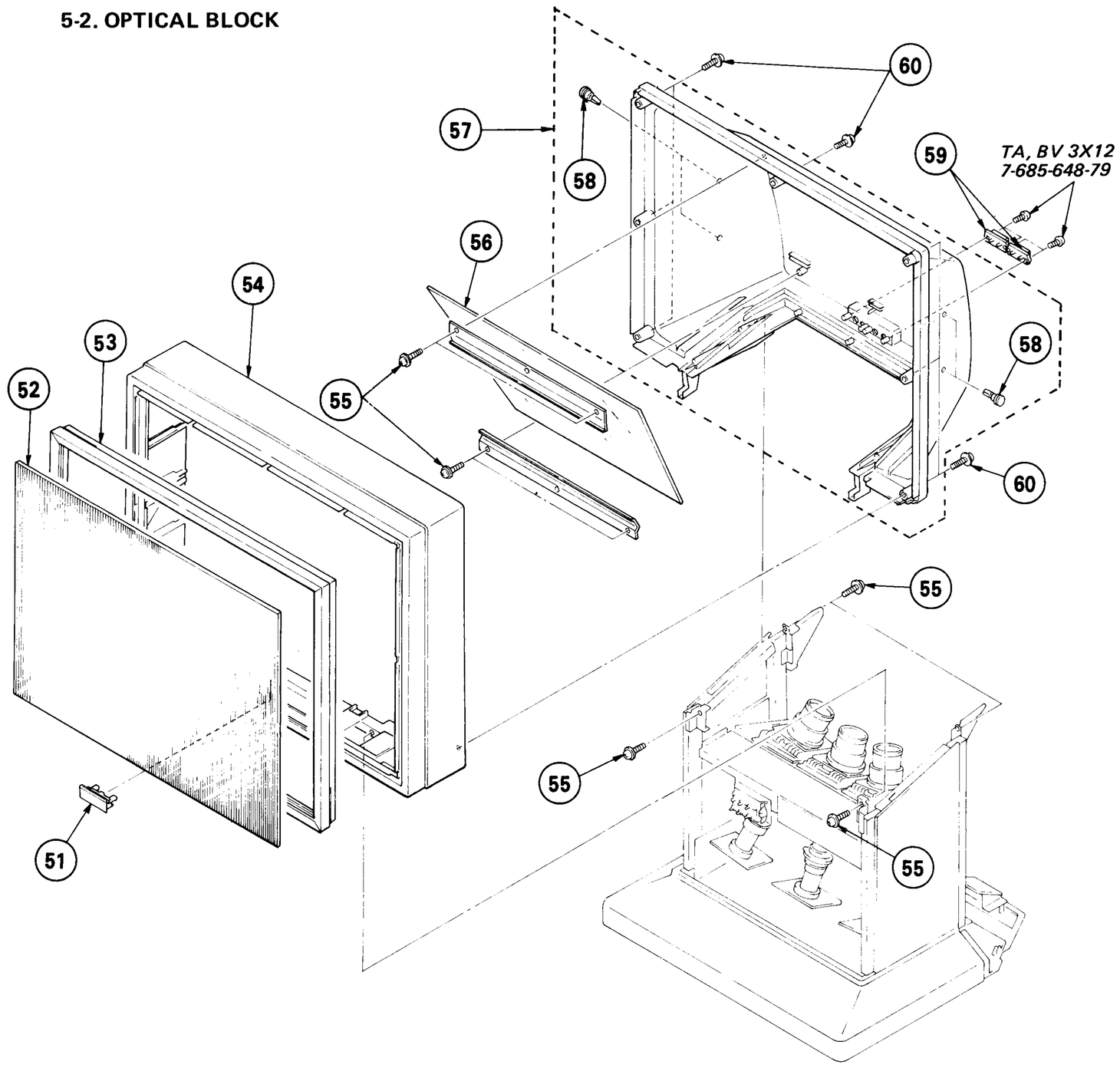
Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. CONTROL PANEL



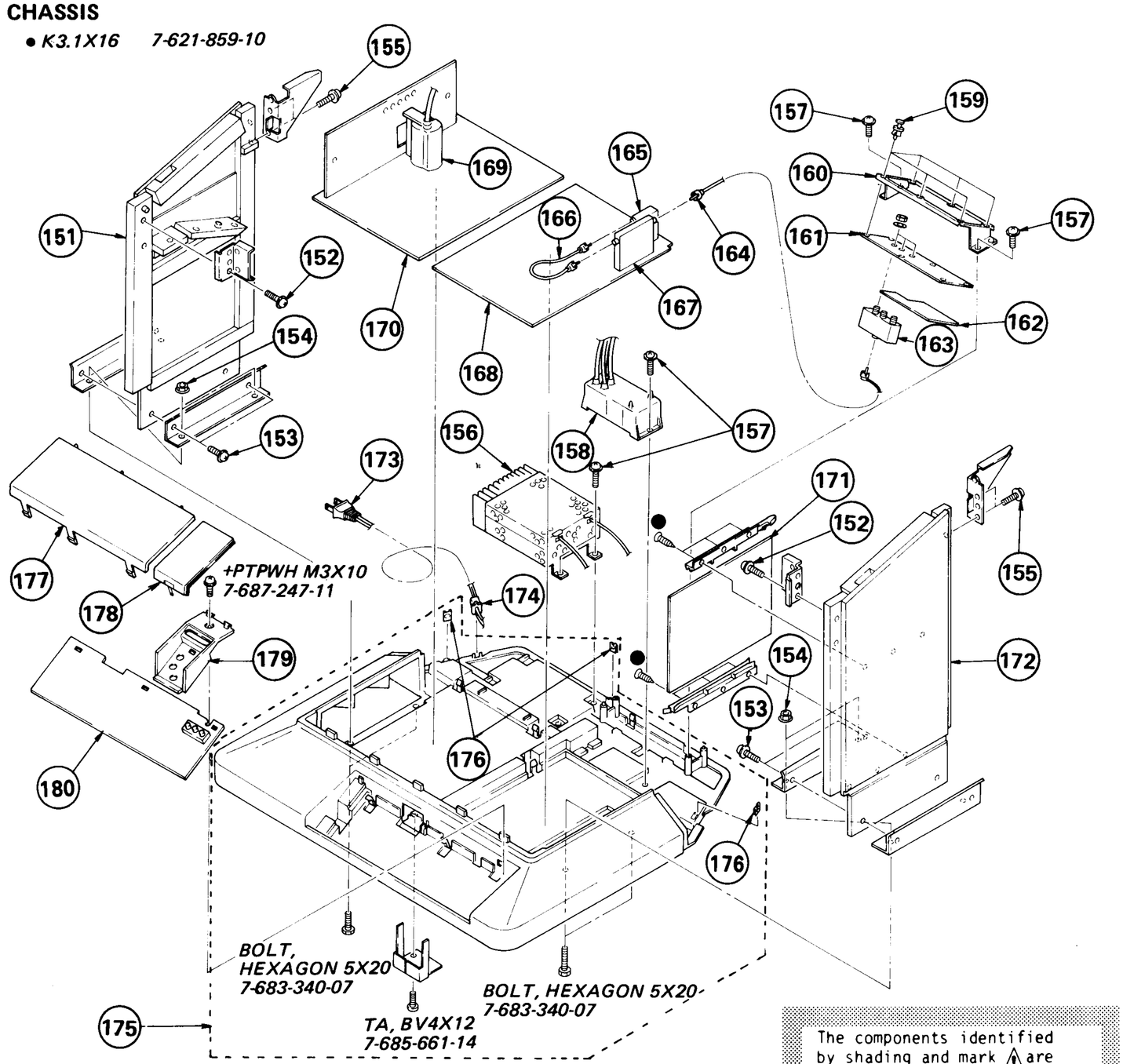
No.	Part No.	Description	Remark
1	4-381-041-01	COVER, FRONT	
2	X-4381-009-1	PANEL (US) ASSY, CONTROL	3~12
3	X-4381-005-1	DOOR (US) ASSY, CONTROL	
4	3-703-035-11	SHAFT, LID	
5	4-375-403-01	BUTTON, SUB CONTROL	
6	4-381-002-01	BUTTON (VTU)	
7	3-642-423-02	SPRING, COMPRESSION	
8	4-381-012-01	BUTTON (CVU)	
9	4-381-012-11	BUTTON (CVU)	
10	4-381-011-01	COVER, INDICATOR	
11	4-381-043-01	BUTTON (PWU)	
12	*4-330-313-00	CUSHION	
13	*1-618-229-11	M BOARD	
14	*1-618-230-11	T BOARD	
15	*4-381-042-01	COVER (US), BACK (USA ONLY)	
	4-381-042-31	COVER (US), BACK (CND ONLY)	
16	3-703-251-11	SCREW (+) (M4×16), TAPPING, IT	
17	3-701-810-91	SCREW, TERMINAL	
19	3-703-282-00	LABEL, DOC (B)	
20	*4-347-756-00	LABEL, HOUSE HOLD USE	

5-2. OPTICAL BLOCK



No.	Part No.	Description	Remark
51	X-4381-001-1	HOLDER, ASSY, EMBLEM	
52	4-381-027-01	ILLUMINATOR	
53	4-381-016-01	HOLDER, SCREEN	
54	*4-381-034-01	FRAME, SCREEN (FOR MAUVE)	
	*4-381-034-11	FRAME, SCREEN (FOR TAUPE)	
55	3-703-251-00	SCREW (+M4), IT TAPPING	
56	4-381-036-01	MIRROR, REFLECTION	
57	*X-4381-010-1	COVER (US) ASSY, MIRROR	58
58	X-4381-002-1	HOLDER ASSY, SPEAKER	
59	1-536-722-00	TERMINAL, SPEAKER	
60	3-703-251-11	SCREW (+) (M4×16), TAPPING, IT	

5-4. CHASSIS



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remark
151	★X-4381-007-1	PLATE (L) ASSY, SIDE	152, 153
152	3-701-810-61	SCREW, TERMINAL	
153	3-703-251-11	SCREW, (+) (M4×16), TAPPING, IT	
154	4-304-511-00	NUT, FLANGE	
155	3-701-810-91	SCREW, TERMINAL	
156	⚠ 1-413-251-11	**SWITCHING REGULATOR (SF-11)**	
157	3-703-251-00	SCREW (+M4), IT TAPPING	
158	⚠ 1-453-099-11	**DC BLOCK, HIGH-VOLTAGE**	
159	4-374-303-01	RIVET, NYLON	
160	★4-381-017-01	BRACKET (US), CONNECTOR PANEL	
161	1-536-995-11	TERMINAL BOARD, INPUT/OUTPUT	
162	★1-618-234-11	J BOARD	
163	⚠ 1-417-125-11	**SELECTOR, ANTENNA**	
164		P-P CABLE	
165	⚠ 1-463-471-33	**SYNTHESIZER UNIT, FREQUENCY**	

No.	Part No.	Description	Remark
166	★1-551-382-00	CABLE P-P	
167	⚠ 1-463-470-00	**TUNER, ET (BT-896)**	
168	A-1296-132-A	A BOARD, COMPLETE	
169	⚠ 1-439-366-12	**TRANSFORMER ASSY, FLYBACK**	
170	★A-1345-604-A	E BOARD, COMPLETE (USA ONLY)	
	★A-1345-655-A	E BOARD, COMPLETE (CND ONLY)	
171	★A-1275-070-A	U BOARD, COMPLETE	
172	★X-4381-006-1	BOARD (RUS) ASSY, SIDE	152,153
173	⚠ 1-557-761-11	**CORD, POWER**	
174	⚠ 4-329-222-01	**HOLDER, AC CORD**	
175	★X-4381-008-1	BASE ASSY	176
176	4-373-073-02	NUT (A), PLATE	
177	4-381-029-01	COVER, REGISTRATION	
178	4-381-025-01	DOOR, REGISTRATION	
179	X-4381-004-1	PANEL (US) ASSY, REGISTRATION	
180	★A-1340-793-A	DA BOARD, COMPLETE	

SECTION 6
ELECTRICAL PARTS LIST

U

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Ref.No.	Part No.	Description				Remark
	*A-1275-070-A	U BOARD, COMPLETE				
		**********				
		CAPACITOR				
C8001	1-123-318-00	ELECT	33MF	20%	16V	
C8002	1-123-318-00	ELECT	33MF	20%	16V	
C8003	1-123-318-00	ELECT	33MF	20%	16V	
C8004	1-123-318-00	ELECT	33MF	20%	16V	
C8005	1-123-356-00	ELECT	10MF	20%	16V	
C8006	1-101-005-00	CERAMIC	0.022MF		50V	
C8007	1-123-356-00	ELECT	10MF	20%	16V	
C8008	1-123-311-00	ELECT	1000MF	20%	10V	
C8011	1-102-963-00	CERAMIC	33PF	5%	50V	
C8024	1-102-971-00	CERAMIC	82PF	5%	50V	
C8025	1-101-880-00	CERAMIC	47PF	5%	50V	
C8026	1-123-356-00	ELECT	10MF	20%	16V	
C8027	1-123-356-00	ELECT	10MF	20%	16V	
C8028	1-101-005-00	CERAMIC	0.022MF		50V	
C8030	1-101-005-00	CERAMIC	0.022MF		50V	
C8031	1-101-005-00	CERAMIC	0.022MF		50V	
C8032	1-123-380-00	ELECT	1MF	20%	50V	
C8033	1-123-380-00	ELECT	1MF	20%	50V	
C8034	1-123-380-00	ELECT	1MF	20%	50V	
C8035	1-123-380-00	ELECT	1MF	20%	50V	
C8036	1-123-380-00	ELECT	1MF	20%	50V	
C8037	1-123-380-00	ELECT	1MF	20%	50V	
C8038	1-123-380-00	ELECT	1MF	20%	50V	
C8039	1-123-380-00	ELECT	1MF	20%	50V	
C8042	1-101-005-00	CERAMIC	0.022MF		50V	
C8043	1-101-005-00	CERAMIC	0.022MF		50V	
C8044	1-123-333-00	ELECT	100MF	20%	16V	
C8045	1-123-356-00	ELECT	10MF	20%	25V	
C8046	1-123-356-00	ELECT	10MF	20%	25V	
C8047	1-123-380-00	ELECT	1MF	20%	50V	
C8048	1-123-380-00	ELECT	1MF	20%	50V	
C8049	1-123-318-00	ELECT	33MF	20%	16V	
C8050	1-108-591-00	MYLAR	0.033MF	10%	50V	
C8051	1-108-825-91	MYLAR	0.001MF	10%	50V	
C8052	1-108-825-91	MYLAR	0.001MF	10%	50V	
C8053	1-108-591-00	MYLAR	0.033MF	10%	50V	
C8054	1-123-325-00	ELECT	2200MF	20%	16V	
C8055	1-101-001-00	CERAMIC	0.001MF		50V	
C8056	1-101-001-00	CERAMIC	0.001MF		50V	
C8058	1-101-001-00	CERAMIC	0.001MF		50V	
C8059	1-123-381-00	ELECT	2.2MF	20%	50V	
C8060	1-101-005-00	CERAMIC	0.022MF		50V	
C8061	1-123-330-00	ELECT	22MF	20%	25V	
C8062	1-123-330-00	ELECT	22MF	20%	25V	
C8063	1-123-333-00	ELECT	100MF	20%	16V	
C8064	1-101-005-00	CERAMIC	0.022MF		50V	
C8200	1-101-001-00	CERAMIC	0.001MF		50V	
C8201	1-123-333-00	ELECT	100MF	20%	16V	
C8810	1-123-356-00	ELECT	10MF	20%	16V	
C8811	1-108-381-91	MYLAR	0.022MF	10%	100V	
C8812	1-106-196-00	MYLAR	0.01MF	10%	100V	
C8813	1-123-356-00	ELECT	10MF	20%	16V	
C8814	1-123-356-00	ELECT	10MF	20%	16V	
C8815	1-123-369-00	ELECT	4.7MF	20%	50V	
C8816	1-123-356-00	ELECT	10MF	20%	16V	
C8818	1-123-356-00	ELECT	10MF	20%	16V	
C8819	1-130-309-00	FILM	0.033MF	5%	100V	
C8820	1-123-356-00	ELECT	10MF	20%	16V	
C8821	1-130-279-00	FILM	0.0018MF	5%	100V	
C8822	1-123-380-00	ELECT	1MF	20%	50V	
C8823	1-123-356-00	ELECT	10MF	20%	16V	
C8824	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C8825	1-123-356-00	ELECT	10MF	20%	16V	
C8826	1-123-323-00	ELECT	470MF	20%	16V	
C8827	1-123-356-00	ELECT	10MF	20%	50V	
C8828	1-108-373-91	MYLAR	0.0047MF	10%	100V	
C8829	1-123-356-00	ELECT	10MF	20%	16V	
C8830	1-123-308-00	ELECT	220MF	20%	10V	
C8832	1-130-281-00	FILM	0.0022MF	5%	100V	
C8833	1-131-343-00	TANTALUM	0.22MF	10%	35V	
C8834	1-131-343-00	TANTALUM	0.22MF	10%	35V	
C8835	1-130-281-00	FILM	0.0022MF	5%	100V	
C8836	1-123-356-00	ELECT	10MF	20%	16V	
C8837	1-123-380-00	ELECT	1MF	20%	50V	
C8838	1-130-281-00	FILM	0.0022MF	5%	100V	
C8839	1-123-356-00	ELECT	10MF	20%	16V	
C8840	1-130-285-00	FILM	0.0033MF	5%	100V	
C8841	1-130-285-00	FILM	0.0033MF	5%	100V	
C8842	1-131-345-00	TANTALUM	0.47MF	10%	35V	
C8843	1-130-309-00	FILM	0.033MF	5%	100V	
C8844	1-130-285-00	FILM	0.0033MF	5%	100V	
C8845	1-130-285-00	FILM	0.0033MF	5%	100V	
C8846	1-131-371-00	TANTALUM	10MF	10%	16V	
C8847	1-123-332-00	ELECT	47MF	20%	16V	
C8848	1-108-622-91	MYLAR	0.0047MF	10%	100V	
C8849	1-123-380-00	ELECT	1MF	20%	50V	
C8850	1-123-380-00	ELECT	1MF	20%	50V	
C8851	1-123-330-00	ELECT	22MF	20%	16V	
C8852	1-123-382-00	ELECT	3.3MF	20%	50V	
C8853	1-123-356-00	ELECT	10MF	20%	50V	
C8854	1-123-380-00	ELECT	1MF	20%	50V	
C8855	1-123-382-00	ELECT	3.3MF	20%	50V	
C8856	1-108-622-91	MYLAR	0.0047MF	10%	100V	
C8857	1-131-368-00	TANTALUM	3.3MF	10%	16V	
C8858	1-130-297-00	FILM	0.01MF	5%	100V	
C8870	1-101-005-00	CERAMIC	0.022MF		50V	
		DIODE				
D8008	8-719-911-19	DIODE 1SS119				
D8009	8-719-911-19	DIODE 1SS119				
D8010	8-719-911-19	DIODE 1SS119				
D8022	8-719-102-73	DIODE RD6.2E-N1				

Ref.No.	Part No.	Description	Remark
D8023	8-719-102-73	DIODE RD6.2E-N1	
D8030	8-719-200-02	DIODE 10E2	
D8820	8-719-102-88	DIODE RD9.1E-N3	
D8821	8-719-102-74	DIODE RD6.2E-N2	
		IC	
IC8001	8-759-102-37	IC UPD4052BC	
IC8002	8-759-140-53	IC UPD4053BC	
IC8005	8-757-948-00	IC CX7948	
IC8006	8-759-140-51	IC UPD4051BC	
IC8007	8-759-140-51	IC UPD4051BC	
IC8008	8-759-907-16	IC CX10026	
IC8009	8-759-600-02	IC M5218L	
IC8810	8-752-011-20	IC CX20112	
IC8811	8-759-400-88	IC AN6291	
IC8812	8-759-145-58	IC UPC4558C	
		COIL	
L8801	1-408-242-00	MICRO INDUCTOR 10MMH	
		TRANSISTOR	
Q8001	8-729-117-54	TRANSISTOR 2SA1175	
Q8002	8-729-117-54	TRANSISTOR 2SA1175	
Q8003	8-729-117-54	TRANSISTOR 2SA1175	
Q8004	8-729-117-54	TRANSISTOR 2SA1175	
Q8005	8-729-117-54	TRANSISTOR 2SA1175	
Q8006	8-729-178-54	TRANSISTOR 2SC2785	
Q8008	8-729-168-82	TRANSISTOR 2SC2688	
Q8011	8-729-178-54	TRANSISTOR 2SC2785	
Q8021	8-729-178-54	TRANSISTOR 2SC2785	
Q8022	8-729-178-54	TRANSISTOR 2SC2785	
Q8023	8-729-178-54	TRANSISTOR 2SC2785	
Q8032	8-729-178-54	TRANSISTOR 2SC2785	
Q8036	8-729-178-54	TRANSISTOR 2SC2785	
Q8037	8-729-117-54	TRANSISTOR 2SA1175	
Q8038	8-729-117-54	TRANSISTOR 2SA1175	
Q8039	8-729-117-54	TRANSISTOR 2SA1175	
Q8040	8-729-117-54	TRANSISTOR 2SA1175	
Q8041	8-729-117-54	TRANSISTOR 2SA1175	
Q8042	8-729-178-54	TRANSISTOR 2SC2785	
Q8044	8-729-178-54	TRANSISTOR 2SC2785	
Q8045	8-729-900-36	TRANSISTOR DTC124ES	
Q8046	8-729-178-54	TRANSISTOR 2SC2785	
Q8047	8-729-178-54	TRANSISTOR 2SC2785	
Q8830	8-729-178-54	TRANSISTOR 2SC2785	
Q8831	8-729-178-54	TRANSISTOR 2SC2785	
Q8872	8-729-117-54	TRANSISTOR 2SA1175	
Q8873	8-729-178-54	TRANSISTOR 2SC2785	
		RESISTOR	
R8001	1-247-713-11	CARBON 1K 5% 1/4W	
R8002	1-249-419-11	CARBON 1.5K 5% 1/6W	
R8003	1-249-419-11	CARBON 1.5K 5% 1/6W	
R8004	1-249-405-11	CARBON 100 5% 1/6W	
R8005	1-249-417-11	CARBON 1K 5% 1/6W	
R8006	1-249-417-11	CARBON 1K 5% 1/6W	
R8007	1-247-823-00	CARBON 470 5% 1/6W	
R8008	1-249-417-11	CARBON 1K 5% 1/6W	
R8009	1-247-819-00	CARBON 330 5% 1/6W	
R8010	1-249-433-11	CARBON 22K 5% 1/6W	
R8011	1-249-429-11	CARBON 10K 5% 1/6W	
R8012	1-247-823-00	CARBON 470 5% 1/6W	
R8013	1-249-429-11	CARBON 10K 5% 1/6W	
R8014	1-247-804-00	CARBON 75 5% 1/6W	
R8018	1-249-441-11	CARBON 100K 5% 1/6W	
R8024	1-249-419-11	CARBON 1.5K 5% 1/6W	
R8025	1-247-799-00	CARBON 47 5% 1/6W	
R8059	1-249-433-11	CARBON 22K 5% 1/6W	
R8060	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8061	1-249-433-11	CARBON 22K 5% 1/6W	
R8062	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8066	1-247-823-00	CARBON 470 5% 1/6W	
R8091	1-249-417-11	CARBON 1K 5% 1/6W	
R8093	1-249-417-11	CARBON 1K 5% 1/6W	
R8094	1-249-433-11	CARBON 22K 5% 1/6W	
R8095	1-247-903-00	CARBON 1M 5% 1/6W	
R8096	1-249-432-11	CARBON 18K 5% 1/6W	
R8097	1-249-435-11	CARBON 33K 5% 1/6W	
R8098	1-249-429-11	CARBON 10K 5% 1/6W	
R8099	1-249-429-11	CARBON 10K 5% 1/6W	
R8100	1-249-417-11	CARBON 1K 5% 1/6W	
R8101	1-249-405-11	CARBON 100 5% 1/6W	
R8103	1-249-405-11	CARBON 100 5% 1/6W	
R8106	1-249-433-11	CARBON 22K 5% 1/6W	
R8107	1-249-433-11	CARBON 22K 5% 1/6W	
R8108	1-249-433-11	CARBON 22K 5% 1/6W	
R8109	1-249-433-11	CARBON 22K 5% 1/6W	
R8110	1-249-433-11	CARBON 22K 5% 1/6W	
R8111	1-249-433-11	CARBON 22K 5% 1/6W	
R8112	1-249-433-11	CARBON 22K 5% 1/6W	
R8113	1-249-441-11	CARBON 100K 5% 1/6W	
R8114	1-249-433-11	CARBON 22K 5% 1/6W	
R8115	1-249-441-11	CARBON 100K 5% 1/6W	
R8120	1-249-441-11	CARBON 100K 5% 1/6W	
R8121	1-249-441-11	CARBON 100K 5% 1/6W	
R8122	1-249-441-11	CARBON 100K 5% 1/6W	
R8123	1-249-441-11	CARBON 100K 5% 1/6W	
R8124	1-249-441-11	CARBON 100K 5% 1/6W	
R8125	1-249-441-11	CARBON 100K 5% 1/6W	
R8126	1-247-823-00	CARBON 470 5% 1/6W	
R8127	1-247-823-00	CARBON 470 5% 1/6W	
R8128	1-247-151-00	CARBON 6.8K 5% 1/4W	
R8129	1-247-837-00	CARBON 1.8K 5% 1/6W	
R8130	1-249-433-11	CARBON 22K 5% 1/6W	
R8131	1-249-437-11	CARBON 47K 5% 1/6W	
R8132	1-249-433-11	CARBON 22K 5% 1/6W	

KPR-36XBR
RM-736/APM-X4

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Ref.No.	Part No.	Description	Remark
R8133	1-249-437-11	CARBON 47K 5% 1/6W	
R8134	1-249-405-11	CARBON 100 5% 1/6W	
R8140	1-247-823-00	CARBON 470 5% 1/6W	
R8141	1-249-441-11	CARBON 100K 5% 1/6W	
R8142	1-247-823-00	CARBON 470 5% 1/6W	
R8143	1-249-441-11	CARBON 100K 5% 1/6W	
R8144	1-249-417-11	CARBON 1K 5% 1/6W	
R8145	1-249-415-11	CARBON 680 5% 1/6W	
R8146	1-249-417-11	CARBON 1K 5% 1/6W	
R8147	1-249-415-11	CARBON 680 5% 1/6W	
R8148	1-249-421-11	CARBON 2.2K 5% 1/6W	
R8149	1-249-421-11	CARBON 2.2K 5% 1/6W	
R8150	1-249-421-11	CARBON 2.2K 5% 1/6W	
R8151	1-249-421-11	CARBON 2.2K 5% 1/6W	
R8152	1-249-429-11	CARBON 10K 5% 1/6W	
R8154	1-249-429-11	CARBON 10K 5% 1/6W	
R8155	1-249-429-11	CARBON 10K 5% 1/6W	
R8160	1-249-417-11	CARBON 1K 5% 1/6W	
R8162	1-247-804-00	CARBON 75 5% 1/6W	
R8163	1-247-804-00	CARBON 75 5% 1/6W	
R8164	1-247-804-00	CARBON 75 5% 1/6W	
R8165	1-249-422-11	CARBON 2.7K 5% 1/6W	
R8166	1-247-837-00	CARBON 1.8K 5% 1/6W	
R8167	1-249-435-11	CARBON 33K 5% 1/6W	
R8168	1-249-433-11	CARBON 22K 5% 1/6W	
R8169	1-249-435-11	CARBON 33K 5% 1/6W	
R8170	1-249-433-11	CARBON 22K 5% 1/6W	
R8171	1-249-435-11	CARBON 33K 5% 1/6W	
R8172	1-249-433-11	CARBON 22K 5% 1/6W	
R8173	1-249-441-11	CARBON 100K 5% 1/6W	
R8174	1-249-441-11	CARBON 100K 5% 1/6W	
R8175	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8176	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8177	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8178	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8179	1-249-429-11	CARBON 10K 5% 1/6W	
R8180	1-249-429-11	CARBON 10K 5% 1/6W	
R8181	1-249-429-11	CARBON 10K 5% 1/6W	
R8182	1-249-429-11	CARBON 10K 5% 1/6W	
R8188	1-249-419-11	CARBON 1.5K 5% 1/6W	
R8189	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8190	1-249-405-11	CARBON 100 5% 1/6W	
R8200	1-249-405-11	CARBON 100 5% 1/6W	
R8201	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8202	1-249-417-11	CARBON 1K 5% 1/6W	
R8203	1-249-417-11	CARBON 1K 5% 1/6W	
R8208	1-249-419-11	CARBON 1.5K 5% 1/6W	
R8811	1-249-417-11	CARBON 1K 5% 1/6W	
R8812	1-249-419-11	CARBON 1.5K 5% 1/6W	
R8813	1-249-417-11	CARBON 1K 5% 1/6W	
R8814	1-249-417-11	CARBON 1K 5% 1/6W	
R8815	1-249-429-11	CARBON 10K 5% 1/6W	
R8816	1-249-441-11	CARBON 100K 5% 1/6W	
R8817	1-215-470-00	METAL 110K 1% 1/6W	
R8818	1-215-470-00	METAL 110K 1% 1/6W	
R8819	1-247-819-00	CARBON 330 5% 1/6W	
R8820	1-247-873-00	CARBON 56K 5% 1/6W	
R8821	1-247-873-00	CARBON 56K 5% 1/6W	
R8822	1-249-414-11	CARBON 560 5% 1/6W	
R8823	1-215-430-00	METAL 2.4K 1% 1/6W	
R8824	1-247-853-00	CARBON 8.2K 5% 1/6W	
R8825	1-249-417-11	CARBON 1K 5% 1/6W	
R8826	1-249-429-11	CARBON 10K 5% 1/6W	
R8827	1-213-129-00	METAL OXIDE 68 5% 1W	F
R8828	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8830	1-247-903-00	CARBON 1M 5% 1/6W	
R8831	1-247-843-00	CARBON 3.3K 5% 1/6W	
R8832	1-247-700-11	CARBON 100 5% 1/4W	
R8834	1-249-435-11	CARBON 33K 5% 1/6W	
R8835	1-247-843-00	CARBON 3.3K 5% 1/6W	
R8836	1-247-885-00	CARBON 180K 5% 1/6W	
R8837	1-247-844-00	CARBON 3.6K 5% 1/6W	
R8838	1-247-885-00	CARBON 180K 5% 1/6W	
R8839	1-215-421-00	METAL 1K 1% 1/6W	
R8840	1-247-811-00	CARBON 150 5% 1/6W	
R8841	1-247-885-00	CARBON 180K 5% 1/6W	
R8842	1-247-848-00	CARBON 5.1K 5% 1/6W	
R8843	1-247-885-00	CARBON 180K 5% 1/6W	
R8844	1-247-844-00	CARBON 3.6K 5% 1/6W	
R8845	1-247-893-00	CARBON 390K 5% 1/6W	
R8846	1-249-433-11	CARBON 22K 5% 1/6W	
R8847	1-247-843-00	CARBON 3.3K 5% 1/6W	
R8849	1-247-843-00	CARBON 3.3K 5% 1/6W	
R8850	1-247-721-11	CARBON 4.7K 5% 1/4W	
R8851	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8852	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8853	1-249-425-11	CARBON 4.7K 5% 1/6W	
R8854	1-247-811-00	CARBON 150 5% 1/6W	
R8855	1-247-869-00	CARBON 39K 5% 1/6W	
R8856	1-247-887-00	CARBON 220K 5% 1/6W	
R8857	1-247-843-00	CARBON 3.3K 5% 1/6W	
R8858	1-247-893-00	CARBON 390K 5% 1/6W	
R8859	1-249-429-11	CARBON 10K 5% 1/6W	
R8862	1-247-843-00	CARBON 3.3K 5% 1/6W	
R8863	1-249-434-11	CARBON 27K 5% 1/6W	
		VARIABLE RESISTOR	
RV8001	1-230-271-00	RES, ADJ, CARBON 4.7K	
RV8002	1-230-271-00	RES, ADJ, CARBON 4.7K	
RV8811	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K	
RV8812	1-228-726-00	RES, ADJ, CERAMIC CARBON 33K	
RV8814	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
RV8815	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
RV8816	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
RV8817	1-228-731-00	RES, ADJ, CERAMIC CARBON 470K	
RV8830	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K	

Ref.No.	Part No.	Description	Remark
RV8831	1-228-725-00	RES, ADJ, CERAMIC CARBON 22K	
RV8832	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
		CONNECTOR	
G6	*1-508-784-00	1P PLUG	
U1	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
U2	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P	
U3	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
U4	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P	
U5	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P	
U6	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P	
U8	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P	
U10	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P	
U11	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
U12	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P	
U13	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
U14	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P	
U15	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P	
		CRYSTAL	
X8001	1-527-396-00	OSCILLATOR, CRYSTAL	
**********			
	*1-618-234-11	J BOARD	
		*******	
	*1-564-450-11	PLUG, CONNECTOR (2.5MM) 2P	
	*1-564-452-11	PLUG, CONNECTOR (2.5MM) 4P	
	*1-564-452-41	PLUG, CONNECTOR (2.5MM) 4P	
	*1-564-455-11	PLUG, CONNECTOR (2.5MM) 7P	
**********			
	*A-1296-132-A	A BOARD, COMPLETE	
		**********	
		CONNECTOR	
A1	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
A2	*1-564-446-11	PLUG, CONNECTOR (2.5MM) 10P	
A3	*1-508-766-00	4P PLUG (M)	
A6	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
A7	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P	
A8	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P	
A9	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P	
A10	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P	
A11	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
A13	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P	
A15	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
A16	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P	
A19	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P	
A21	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P	
A22	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P	

Ref.No.	Part No.	Description			Remark
A23	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P			
		CAPACITOR			
C101	1-102-816-00	CERAMIC	120PF	5%	50V
C102	1-102-816-00	CERAMIC	120PF	5%	50V
C103	1-102-074-00	CERAMIC	0.001MF	10%	50V
C104	1-123-447-00	ELECT	0.22MF	20%	50V
C106	1-123-380-00	ELECT	1MF	20%	50V
C107	1-123-318-00	ELECT	33MF	20%	16V
C108	1-101-001-00	CERAMIC	0.001MF		50V
C110	1-123-381-00	ELECT	2.2MF	20%	50V
C111	1-123-381-00	ELECT	2.2MF	20%	50V
C112	1-123-381-00	ELECT	2.2MF	20%	50V
C113	1-102-976-00	CERAMIC	180PF	5%	50V
C114	1-102-976-00	CERAMIC	180PF	5%	50V
C116	1-123-369-00	ELECT	4.7MF	20%	25V
C117	1-101-880-00	CERAMIC	47PF	5%	50V
C118	1-101-884-00	CERAMIC	56PF	5%	50V
C119	1-102-976-00	CERAMIC	180PF	5%	50V
C120	1-102-976-00	CERAMIC	180PF	5%	50V
C121	1-108-622-91	MYLAR	0.0047MF	10%	100V
C122	1-101-004-00	CERAMIC	0.01MF		50V
C123	1-123-356-00	ELECT	10MF	20%	16V
C124	1-123-356-00	ELECT	10MF	20%	50V
C125	1-123-380-00	ELECT	1MF	20%	50V
C126	1-123-380-00	ELECT	1MF	20%	50V
C127	1-123-380-00	ELECT	1MF	20%	50V
C128	1-123-380-00	ELECT	1MF	20%	50V
C130	1-124-555-00	ELECT	1000MF	20%	16V
C131	1-123-318-00	ELECT	33MF	20%	16V
C132	1-101-003-00	CERAMIC	0.0047MF		50V
C133	1-101-003-00	CERAMIC	0.0047MF		50V
C134	1-123-333-00	ELECT	100MF	20%	16V
C135	1-101-003-00	CERAMIC	0.0047MF		50V
C137	1-123-356-00	ELECT	10MF	20%	16V
C138	1-123-356-00	ELECT	10MF	20%	16V
C139	1-123-356-00	ELECT	10MF	20%	16V
C140	1-101-001-00	CERAMIC	0.001MF		50V
C141	1-101-002-00	CERAMIC	0.0022MF		50V
C142	1-106-190-00	MYLAR	0.0056MF	10%	100V
C143	1-123-309-00	ELECT	330MF	20%	10V
C144	1-101-004-00	CERAMIC	0.01MF		50V
C145	1-101-004-00	CERAMIC	0.01MF		50V
C146	1-123-333-00	ELECT	100MF	20%	16V
C147	1-101-001-00	CERAMIC	0.001MF		50V
C149	1-101-004-00	CERAMIC	0.01MF		50V
C150	1-101-004-00	CERAMIC	0.01MF		50V
C151	1-119-135-00	ELECT	220MF		16V
C152	1-123-356-00	ELECT	10MF	20%	16V
C153	1-123-333-00	ELECT	100MF	20%	16V
C154	1-123-356-00	ELECT	10MF	20%	16V
C155	1-102-074-00	CERAMIC	0.001MF	10%	50V
C156	1-123-356-00	ELECT	10MF	20%	16V

Ref.No.	Part No.	Description			Remark
C157	1-123-380-00	ELECT	1MF	20% 50V	
C158	1-108-618-91	MYLAR	0.0022MF	10% 100V	
C159	1-102-824-21	CERAMIC	470PF	5% 50V	
C161	1-119-135-00	ELECT	220MF	16V	
C190	1-123-380-00	ELECT	1MF	20% 50V	
C201	1-102-121-00	CERAMIC	0.0022MF	10% 50V	
C202	1-102-128-21	CERAMIC	0.0082MF	10% 50V	
C203	1-102-851-00	CERAMIC	15PF	5% 50V	
C204	1-102-525-00	CERAMIC	68PF	5% 50V	
C205	1-123-318-00	ELECT	33MF	20% 16V	
C206	1-123-318-00	ELECT	33MF	20% 16V	
C207	1-101-884-00	CERAMIC	56PF	5% 50V	
C208	1-161-059-00	CERAMIC	0.047MF	10% 25V	
C209	1-102-824-21	CERAMIC	470PF	5% 50V	
C211	1-102-121-00	CERAMIC	0.0022MF	10% 50V	
C212	1-101-004-00	CERAMIC	0.01MF	50V	
C213	1-161-059-00	CERAMIC	0.047MF	10% 25V	
C214	1-102-121-00	CERAMIC	0.0022MF	10% 50V	
C215	1-102-121-00	CERAMIC	0.0022MF	10% 50V	
C216	1-102-525-00	CERAMIC	68PF	5% 50V	
C217	1-123-586-00	ELECT	0.1MF	20% 50V	
C218	1-123-586-00	ELECT	0.1MF	20% 50V	
C219	1-102-634-11	CERAMIC	8PF	0.5PF 50V	
C220	1-102-637-00	CERAMIC	12PF	5% 50V	
C221	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C222	1-123-379-00	ELECT	0.47MF	20% 50V	
C223	1-123-356-00	ELECT	10MF	20% 16V	
C226	1-102-121-00	CERAMIC	0.0022MF	10% 50V	
C228	1-123-330-00	ELECT	22MF	20% 16V	
C231	1-102-121-00	CERAMIC	0.0022MF	10% 50V	
C232	1-102-959-00	CERAMIC	22PF	5% 50V	
C233	1-102-959-00	CERAMIC	22PF	5% 50V	
C234	1-123-379-00	ELECT	0.47MF	20% 50V	
C235	1-123-379-00	ELECT	0.47MF	20% 50V	
C236	1-123-318-00	ELECT	33MF	20% 16V	
C237	1-102-121-00	CERAMIC	0.0022MF	10% 50V	
C238	1-123-381-00	ELECT	2.2MF	20% 50V	
C239	1-102-752-91	CERAMIC	30PF	5% 50V	
C240	1-124-005-11	ELECT	4.7MF	20% 50V	
C241	1-102-973-00	CERAMIC	100PF	5% 50V	
C243	1-102-816-00	CERAMIC	120PF	5% 50V	
C244	1-123-318-00	ELECT	33MF	20% 16V	
C245	1-123-333-00	ELECT	100MF	20% 16V	
C246	1-123-318-00	ELECT	33MF	20% 16V	
C247	1-123-333-00	ELECT	100MF	20% 16V	
C248	1-102-074-00	CERAMIC	0.001MF	10% 50V	
C249	1-123-380-00	ELECT	1MF	20% 50V	
C250	1-123-318-00	ELECT	33MF	20% 16V	
C251	1-123-333-00	ELECT	100MF	20% 16V	
C301	1-123-356-00	ELECT	10MF	20% 16V	
C302	1-102-965-00	CERAMIC	39PF	5% 50V	
C303	1-101-884-00	CERAMIC	56PF	5% 50V	
C304	1-123-380-00	ELECT	1MF	20% 50V	

Ref.No.	Part No.	Description			Remark
C305	1-123-380-00	ELECT	1MF	20% 50V	
C306	1-123-356-00	ELECT	10MF	20% 25V	
C307	1-123-369-00	ELECT	4.7MF	20% 25V	
C308	1-102-129-00	CERAMIC	0.01MF	10% 50V	
C309	1-102-973-00	CERAMIC	100PF	5% 50V	
C310	1-123-330-00	ELECT	22MF	20% 16V	
C311	1-161-047-00	CERAMIC	0.0047MF	10% 50V	
C312	1-123-447-00	ELECT	0.22MF	20% 50V	
C313	1-123-447-00	ELECT	0.22MF	20% 50V	
C314	1-101-004-00	CERAMIC	0.01MF	50V	
C315	1-123-356-00	ELECT	10MF	20% 16V	
C316	1-101-888-00	CERAMIC	68PF	5% 50V	
C317	1-102-865-00	CERAMIC	8PF	0.5PF 50V	
C318	1-102-074-00	CERAMIC	0.001MF	10% 50V	
C319	1-123-379-00	ELECT	0.47MF	20% 50V	
C320	1-124-006-11	ELECT	10MF	20% 25V	
C321	1-123-379-00	ELECT	0.47MF	20% 50V	
C322	1-123-286-00	ELECT	0.33MF	20% 50V	
C323	1-123-379-00	ELECT	0.47MF	20% 50V	
C324	1-123-357-00	ELECT	22MF	20% 50V	
C325	1-123-380-00	ELECT	1MF	20% 50V	
C326	1-102-949-00	CERAMIC	12PF	5% 50V	
C328	1-161-265-00	CERAMIC	33PF	5% 50V	
C330	1-123-333-00	ELECT	100MF	20% 16V	
C331	1-101-888-00	CERAMIC	68PF	5% 50V	
C332	1-102-965-00	CERAMIC	39PF	5% 50V	
C333	1-124-475-11	ELECT	470MF	20% 16V	
C334	1-123-380-00	ELECT	1MF	20% 50V	
C338	1-102-965-00	CERAMIC	39PF	5% 50V	
C339	1-102-942-00	CERAMIC	5PF	0.5PF 50V	
C340	1-124-555-00	ELECT	1000MF	20% 16V	
C404	1-124-555-00	ELECT	1000MF	20% 16V	
C405	1-101-003-00	CERAMIC	0.0047MF	50V	
C411	1-123-356-00	ELECT	10MF	20% 50V	
C412	1-123-369-00	ELECT	4.7MF	20% 50V	
C413	1-108-620-91	MYLAR	0.0033MF	10% 100V	
C417	1-124-002-11	ELECT	1MF	20% 50V	
C419	1-123-332-00	ELECT	47MF	20% 16V	
C421	1-123-380-00	ELECT	1MF	20% 50V	
C427	1-123-333-00	ELECT	100MF	20% 16V	
C428	1-101-003-00	CERAMIC	0.0047MF	50V	
C500	1-102-117-00	CERAMIC	820PF	10% 50V	
C501	1-123-356-00	ELECT	10MF	20% 25V	
C503	1-102-117-00	CERAMIC	820PF	10% 50V	
C504	1-123-356-00	ELECT	10MF	20% 25V	
C506	1-102-117-00	CERAMIC	820PF	10% 50V	
C507	1-123-356-00	ELECT	10MF	20% 25V	
		FILTER			
CF201	1-409-332-00	CERAMIC TRAP			
CF202	1-527-943-00	FILTER, CERAMIC			
SWF201	1-404-227-51	SAWF 45MHZ			

Ref.No.	Part No.	Description	Remark
		TRIMMER	
CV316	1-141-147-XX	CAP, TRIMMER	
		DIODE	
D101	8-719-911-19	DIODE 1SS119	
D102	8-759-157-40	IC UPC574J	
D103	8-719-102-60	DIODE RD3.9E-N2	
D104	8-719-102-60	DIODE RD3.9E-N2	
D108	8-719-815-55	DIODE 1S1555	
D109	8-719-911-19	DIODE 1SS119	
D110	8-719-815-55	DIODE 1S1555	
D111	8-719-102-65	DIODE RD4.7E-N2	
D112	8-719-101-04	DIODE RD33E-B2	
D117	8-719-102-70	DIODE RD5.6E-N1	
D119	8-719-911-19	DIODE 1SS119	
D200	8-719-102-70	DIODE RD5.6E-N1	
D202	8-719-911-19	DIODE 1SS119(USA ONLY)	
⚠	8-719-911-19	DIODE 1SS119(CND ONLY)	
D203	8-719-102-91	DIODE RD10E-N3	
D204	8-719-103-06	DIODE RD13E-N2	
D205	8-719-911-19	DIODE 1SS119	
D251	8-719-102-71	DIODE RD5.6E-N2	
D402	8-719-911-19	DIODE 1SS119	
D406	8-719-911-19	DIODE 1SS119	
D411	8-719-911-19	DIODE 1SS119	
		DELAY LINE	
DL301	1-415-356-11	DELAY LINE, 1H	
DL302	1-415-388-11	DELAY LINE, Y	
		IC	
IC101	8-759-103-07	IC CX526-025	
IC102	8-759-800-65	IC LA7910	
IC103	8-759-912-82	IC CX530-507N	
IC104	8-759-909-50	IC CX7958	
IC105	8-759-240-71	IC TC4071BP	
IC106	8-752-320-11	IC CXK1001P	
IC107	8-759-102-28	IC UPD6326C	
IC201	8-752-001-41	IC CX20014A	
IC202	8-752-013-90	IC CX20139	
IC301	8-758-470-00	IC CX847	
IC302	8-759-913-11	IC CX20125	
		COIL	
L101	1-407-717-00	MICRO INDUCTOR 1MMH	
L102	1-404-538-11	COIL	
L103	1-408-431-31	MICRO INDUCTOR 1.2UH	
L104	1-408-436-31	MICRO INDUCTOR 3.3UH	
L105	1-408-436-31	MICRO INDUCTOR 3.3UH	
L107	1-410-016-11	MICRO INDUCTOR 3.9UH	
L108	1-410-016-11	MICRO INDUCTOR 3.9UH	
L109	1-410-016-11	MICRO INDUCTOR 3.9UH	
L110	1-408-462-31	MICRO INDUCTOR 470UH	
L111	1-408-450-31	MICRO INDUCTOR 47UH	
L112	1-408-454-31	MICRO INDUCTOR 100UH	
L113	1-408-431-31	MICRO INDUCTOR 1.2UH	
L114	1-408-430-31	MICRO INDUCTOR 1UH	
L201	1-408-441-31	MICRO INDUCTOR 8.2UH	
L202	1-408-709-00	MICRO INDUCTOR 0.68UH	
L203	1-410-073-11	MICRO INDUCTOR 0.22UH	
L204	1-408-441-31	MICRO INDUCTOR 8.2UH	
L205	1-408-445-31	MICRO INDUCTOR 18UH	
L206	1-408-411-00	MICRO INDUCTOR 15UH	
L207	1-408-402-00	MICRO INDUCTOR 2.7UH	
L208	1-408-409-00	MICRO INDUCTOR 10UH	
L301	1-408-450-31	MICRO INDUCTOR 47UH	
L302	1-408-449-31	MICRO INDUCTOR 39UH	
L303	1-404-540-11	COIL	
L304	1-408-411-00	MICRO INDUCTOR 15UH	
L305	1-408-431-31	MICRO INDUCTOR 1.2UH	
L306	1-408-431-31	MICRO INDUCTOR 1.2UH	
L307	1-408-431-31	MICRO INDUCTOR 1.2UH	
L308	1-408-163-00	MICRO INDUCTOR 5.6MMH	
L309	1-408-453-31	MICRO INDUCTOR 82UH	
L310	1-408-409-00	MICRO INDUCTOR 10UH	
		TRANSISTOR	
Q101	8-729-117-54	TRANSISTOR 2SA1175	
Q102	8-729-178-54	TRANSISTOR 2SC2785	
Q103	8-729-178-54	TRANSISTOR 2SC2785	
Q104	8-729-117-54	TRANSISTOR 2SA1175	
Q105	8-729-178-54	TRANSISTOR 2SC2785	
Q106	8-729-178-54	TRANSISTOR 2SC2785	
Q107	8-729-117-54	TRANSISTOR 2SA1175	
Q108	8-729-178-54	TRANSISTOR 2SC2785	
Q109	8-729-178-54	TRANSISTOR 2SC2785	
Q110	8-729-178-54	TRANSISTOR 2SC2785	
Q111	8-729-178-54	TRANSISTOR 2SC2785	
Q113	8-729-117-54	TRANSISTOR 2SA1175	
Q114	8-729-117-54	TRANSISTOR 2SA1175	
Q115	8-729-117-54	TRANSISTOR 2SA1175	
Q116	8-729-178-54	TRANSISTOR 2SC2785	
Q118	8-729-178-54	TRANSISTOR 2SC2785	
Q123	8-729-178-54	TRANSISTOR 2SC2785	
Q124	8-729-178-54	TRANSISTOR 2SC2785	
Q125	8-729-117-54	TRANSISTOR 2SA1175	
Q126	8-729-178-54	TRANSISTOR 2SC2785	
Q127	8-729-178-54	TRANSISTOR 2SC2785	
Q128	8-729-178-54	TRANSISTOR 2SC2785	
Q201	8-729-266-93	TRANSISTOR 2SC2669	
Q202	8-729-117-54	TRANSISTOR 2SA1175	
Q204	8-729-178-54	TRANSISTOR 2SC2785	
Q205	8-729-117-54	TRANSISTOR 2SA1175	
Q206	8-729-178-54	TRANSISTOR 2SC2785	
Q207	8-729-178-54	TRANSISTOR 2SC2785	
Q208	8-729-288-02	TRANSISTOR 2SD880	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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Ref.No.	Part No.	Description	Remark
Q209	8-729-201-78	TRANSISTOR 2SD1406	
Q251	8-729-288-02	TRANSISTOR 2SD880	
Q301	8-729-178-54	TRANSISTOR 2SC2785	
Q302	8-729-178-54	TRANSISTOR 2SC1785	
Q303	8-729-178-54	TRANSISTOR 2SC2785	
Q304	8-729-178-54	TRANSISTOR 2SC2785	
Q305	8-729-178-54	TRANSISTOR 2SC2785	
Q306	8-729-178-54	TRANSISTOR 2SC2785	
Q309	8-729-178-54	TRANSISTOR 2SC2785	
Q310	8-729-178-54	TRANSISTOR 2SC2785	
Q311	8-729-178-54	TRANSISTOR 2SC2785	
Q313	8-729-117-54	TRANSISTOR 2SA1175	
Q403	8-729-117-54	TRANSISTOR 2SA1175	
Q404	8-729-178-54	TRANSISTOR 2SC2785	
Q405	8-729-178-54	TRANSISTOR 2SC2785	
Q406	8-729-178-54	TRANSISTOR 2SC2785	
Q408	8-729-178-54	TRANSISTOR 2SC2785	
Q411	8-729-117-54	TRANSISTOR 2SA1175	
Q412	8-729-117-54	TRANSISTOR 2SA1175	
Q413	8-729-117-54	TRANSISTOR 2SA1175	
Q416	8-729-178-54	TRANSISTOR 2SC2785	
Q417	8-729-178-54	TRANSISTOR 2SC2785	
Q418	8-729-178-54	TRANSISTOR 2SC2785	
Q419	8-729-378-91	TRANSISTOR 2SD789	
Q420	8-729-378-91	TRANSISTOR 2SD789	
Q421	8-729-378-91	TRANSISTOR 2SD789	
Q422	8-729-117-54	TRANSISTOR 2SA1175	
Q423	8-729-117-54	TRANSISTOR 2SA1175	
Q426	8-729-117-54	TRANSISTOR 2SA1175	
Q430	8-729-117-54	TRANSISTOR 2SA1175	
		RESISTOR	
R001	1-247-711-11	CARBON 680 5% 1/4W	
R003	1-247-705-11	CARBON 270 5% 1/4W	
R004	1-247-843-00	CARBON 3.3K 5% 1/6W	
R005	1-247-843-00	CARBON 3.3K 5% 1/6W	
R006	1-247-163-00	CARBON 22K 5% 1/4W	
R007	1-247-719-11	CARBON 3.3K 5% 1/4W	
R008	1-247-719-11	CARBON 3.3K 5% 1/4W	
R009	1-247-843-00	CARBON 3.3K 5% 1/6W	
R010	1-247-719-11	CARBON 3.3K 5% 1/4W	
R012	1-247-704-11	CARBON 220 5% 1/4W	
R014	1-247-135-00	CARBON 1.5K 5% 1/4W	
R015	1-249-425-11	CARBON 4.7K 5% 1/6W	
R016	1-247-725-11	CARBON 10K 5% 1/4W	
R020	1-249-421-11	CARBON 2.2K 5% 1/6W	
R021	1-247-717-11	CARBON 2.2K 5% 1/4W	
R022	1-247-717-11	CARBON 2.2K 5% 1/4W	
R023	1-247-717-11	CARBON 2.2K 5% 1/4W	
R025	1-247-713-11	CARBON 1K 5% 1/4W	
R026	1-249-429-11	CARBON 10K 5% 1/6W	
R027	1-249-435-11	CARBON 33K 5% 1/6W	
R028	1-247-713-11	CARBON 1K 5% 1/4W	
R106	1-249-425-11	CARBON 4.7K 5% 1/6W	
R107	1-247-717-11	CARBON 2.2K 5% 1/4W	
R108	1-247-717-11	CARBON 2.2K 5% 1/4W	
R109	1-249-429-11	CARBON 10K 5% 1/6W	
R110	1-249-429-11	CARBON 10K 5% 1/6W	
R111	1-247-823-00	CARBON 470 5% 1/6W	
R112	1-247-885-00	CARBON 180K 5% 1/6W	
R113	1-249-429-11	CARBON 10K 5% 1/6W	
R114	1-249-421-11	CARBON 2.2K 5% 1/6W	
R115	1-247-819-00	CARBON 330 5% 1/6W	
R118	1-247-713-11	CARBON 1K 5% 1/4W	
R119	1-249-417-11	CARBON 1K 5% 1/6W	
R120	1-249-437-11	CARBON 47K 5% 1/6W	
R121	1-249-437-11	CARBON 47K 5% 1/6W	
R122	1-247-163-00	CARBON 22K 5% 1/4W	
R123	1-247-717-11	CARBON 2.2K 5% 1/4W	
R124	1-247-849-00	CARBON 5.6K 5% 1/6W	
R125	1-249-435-11	CARBON 33K 5% 1/6W	
R126	1-247-851-00	CARBON 6.8K 5% 1/6W	
R127	1-249-419-11	CARBON 1.5K 5% 1/6W	
R128	1-247-857-00	CARBON 12K 5% 1/6W	
R129	1-249-429-11	CARBON 10K 5% 1/6W	
R130	1-247-167-00	CARBON 33K 5% 1/4W	
R131	1-247-887-00	CARBON 220K 5% 1/6W	
R132	1-247-153-00	CARBON 8.2K 5% 1/4W	
R133	1-247-873-00	CARBON 56K 5% 1/6W	
R134	1-247-895-00	CARBON 470K 5% 1/6W	
R135	1-247-895-00	CARBON 470K 5% 1/6W	
R136	1-247-889-00	CARBON 270K 5% 1/6W	
R137	1-249-421-11	CARBON 2.2K 5% 1/6W	
R138	1-247-125-00	CARBON 560 5% 1/4W	
R139	1-247-717-11	CARBON 2.2K 5% 1/4W	
R140	1-247-717-11	CARBON 2.2K 5% 1/4W	
R142	1-247-700-11	CARBON 100 5% 1/4W	
R143	1-249-421-11	CARBON 2.2K 5% 1/6W	
R144	1-249-429-11	CARBON 10K 5% 1/6W	
R145	1-249-441-11	CARBON 100K 5% 1/6W	
R146	1-247-718-11	CARBON 2.7K 5% 1/4W	
R147	1-247-718-11	CARBON 2.7K 5% 1/4W	
R148	1-247-718-11	CARBON 2.7K 5% 1/4W	
R149	1-247-719-11	CARBON 3.3K 5% 1/4W	
R150	1-247-719-11	CARBON 3.3K 5% 1/4W	
R151	1-247-704-11	CARBON 220 5% 1/4W	
R152	1-249-437-11	CARBON 47K 5% 1/6W	
R153	1-249-429-11	CARBON 10K 5% 1/6W	
R154	1-249-437-11	CARBON 47K 5% 1/6W	
R155	1-249-437-11	CARBON 47K 5% 1/6W	
R156	1-247-887-00	CARBON 220K 5% 1/6W	
R157	1-249-433-11	CARBON 22K 5% 1/6W	
R158	1-249-437-11	CARBON 47K 5% 1/6W	
R159	1-247-889-00	CARBON 270K 5% 1/6W	
R160	1-249-441-11	CARBON 100K 5% 1/6W	
R161	1-247-713-11	CARBON 1K 5% 1/4W	

Ref.No.	Part No.	Description				Remark
R162	1-247-713-11	CARBON	1K	5%	1/4W	
R163	1-247-713-11	CARBON	1K	5%	1/4W	
R164	1-249-421-11	CARBON	2.2K	5%	1/6W	
R165	1-249-421-11	CARBON	2.2K	5%	1/6W	
R166	1-247-076-00	CARBON	2.7	5%	1/4W	(USA ONLY)
⚠	1-246-411-75	CARBON	2.7	5%	1/4W	(CND ONLY)
R167	1-206-696-00	METAL OXIDE	22K	5%	2W	F
R168	1-247-717-11	CARBON	2.2K	5%	1/4W	
R169	1-247-725-11	CARBON	10K	5%	1/4W	
R170	1-247-725-11	CARBON	10K	5%	1/4W	
R171	1-249-417-11	CARBON	1K	5%	1/6W	
R174	1-249-429-11	CARBON	10K	5%	1/6W	
R175	1-247-725-11	CARBON	10K	5%	1/4W	
R176	1-247-891-00	CARBON	330K	5%	1/6W	
R177	1-249-429-11	CARBON	10K	5%	1/6W	
R178	1-247-717-11	CARBON	2.2K	5%	1/4W	
R179	1-247-717-11	CARBON	2.2K	5%	1/4W	
R180	1-249-421-11	CARBON	2.2K	5%	1/6W	
R181	1-249-421-11	CARBON	2.2K	5%	1/6W	
R182	1-249-421-11	CARBON	2.2K	5%	1/6W	
R183	1-249-440-11	CARBON	82K	5%	1/6W	
R185	1-249-429-11	CARBON	10K	5%	1/6W	
R186	1-249-429-11	CARBON	10K	5%	1/6W	
R187	1-249-421-11	CARBON	2.2K	5%	1/6W	
R188	1-249-421-11	CARBON	2.2K	5%	1/6W	
R189	1-249-421-11	CARBON	2.2K	5%	1/6W	
R190	1-249-429-11	CARBON	10K	5%	1/6W	
R191	1-247-843-00	CARBON	3.3K	5%	1/6W	
R192	1-249-425-11	CARBON	4.7K	5%	1/6W	
R193	1-244-877-51	CARBON	1.5K	5%	1/2W	
R194	1-249-437-11	CARBON	47K	5%	1/6W	
R196	1-249-437-11	CARBON	47K	5%	1/6W	
R197	1-249-437-11	CARBON	47K	5%	1/6W	
R198	1-249-433-11	CARBON	22K	5%	1/6W	
R199	1-249-429-11	CARBON	10K	5%	1/6W	
R201	1-247-837-00	CARBON	1.8K	5%	1/6W	
R202	1-247-857-00	CARBON	12K	5%	1/6W	
R203	1-249-429-11	CARBON	10K	5%	1/6W	
R204	1-215-457-00	METAL	33K	1%	1/6W	
R205	1-215-457-00	METAL	33K	1%	1/6W	
R206	1-249-433-11	CARBON	22K	5%	1/6W	
R208	1-247-883-00	CARBON	150K	5%	1/6W	
R209	1-247-883-00	CARBON	150K	5%	1/6W	
R211	1-249-417-11	CARBON	1K	5%	1/6W	
R215	1-247-883-00	CARBON	150K	5%	1/6W	
R216	1-247-815-00	CARBON	220	5%	1/6W	
R218	1-247-845-00	CARBON	3.9K	5%	1/6W	
R219	1-247-817-00	CARBON	270	5%	1/6W	
R220	1-247-801-00	CARBON	56	5%	1/6W	
R221	1-247-822-00	CARBON	430	5%	1/6W	
R223	1-247-821-00	CARBON	390	5%	1/6W	
R224	1-247-830-00	CARBON	910	5%	1/6W	
R225	1-249-415-11	CARBON	680	5%	1/6W	
R226	1-249-405-11	CARBON	100	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R227	1-249-415-11	CARBON	680	5%	1/6W	
R228	1-247-833-00	CARBON	1.2K	5%	1/6W	
R229	1-247-803-00	CARBON	68	5%	1/6W	
R230	1-247-843-00	CARBON	3.3K	5%	1/6W	
R231	1-247-846-00	CARBON	4.3K	5%	1/6W	
R232	1-247-851-00	CARBON	6.8K	5%	1/6W	
R234	1-249-421-11	CARBON	2.2K	5%	1/6W	
R235	1-247-819-00	CARBON	330	5%	1/6W	
R236	1-247-700-11	CARBON	100	5%	1/4W	
R237	1-247-795-00	CARBON	33	5%	1/6W	
R238	1-249-425-11	CARBON	4.7K	5%	1/6W	
R239	1-247-819-00	CARBON	330	5%	1/6W	
R241	1-212-367-00	METAL OXIDE	3.9	5%	1W	F
R242	1-206-495-00	METAL OXIDE	2.2	5%	3W	F
R243	1-247-821-00	CARBON	390	5%	1/6W	
R244	1-247-704-11	CARBON	220	5%	1/4W	
R245	1-249-417-11	CARBON	1K	5%	1/6W	
R250	1-206-453-00	METAL OXIDE	3.9	5%	2W	F
R251	1-247-706-11	CARBON	330	5%	1/4W	
R300	1-249-405-11	CARBON	100	5%	1/6W	
R301	1-249-435-11	CARBON	33K	5%	1/6W	
R302	1-249-434-11	CARBON	27K	5%	1/6W	
R303	1-247-833-00	CARBON	1.2K	5%	1/6W	
R304	1-247-823-00	CARBON	470	5%	1/6W	
R305	1-247-833-00	CARBON	1.2K	5%	1/6W	
R306	1-249-419-11	CARBON	1.5K	5%	1/6W	
R307	1-249-415-11	CARBON	680	5%	1/6W	
R308	1-249-415-11	CARBON	680	5%	1/6W	
R309	1-249-415-11	CARBON	680	5%	1/6W	
R310	1-249-415-11	CARBON	680	5%	1/6W	
R311	1-247-833-00	CARBON	1.2K	5%	1/6W	
R312	1-247-833-00	CARBON	1.2K	5%	1/6W	
R313	1-249-419-11	CARBON	1.5K	5%	1/6W	
R314	1-249-419-11	CARBON	1.5K	5%	1/6W	
R315	1-247-833-00	CARBON	1.2K	5%	1/6W	
R316	1-247-833-00	CARBON	1.2K	5%	1/6W	
R317	1-249-417-11	CARBON	1K	5%	1/6W	
R318	1-249-422-11	CARBON	2.7K	5%	1/6W	
R319	1-249-422-11	CARBON	2.7K	5%	1/6W	
R320	1-249-422-11	CARBON	2.7K	5%	1/6W	
R321	1-247-899-00	CARBON	680K	5%	1/6W	
R322	1-249-434-11	CARBON	27K	5%	1/6W	
R323	1-247-145-00	CARBON	3.9K	5%	1/4W	
R324	1-247-706-11	CARBON	330	5%	1/4W	
R325	1-249-433-11	CARBON	22K	5%	1/6W	
R326	1-247-843-00	CARBON	3.3K	5%	1/6W	
R327	1-247-845-00	CARBON	3.9K	5%	1/6W	
R328	1-247-829-00	CARBON	820	5%	1/6W	
R329	1-249-421-11	CARBON	2.2K	5%	1/6W	
R331	1-249-405-11	CARBON	100	5%	1/6W	
R332	1-247-821-00	CARBON	390	5%	1/6W	
R333	1-249-433-11	CARBON	22K	5%	1/6W	
R334	1-247-829-00	CARBON	820	5%	1/6W	

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Ref.No.	Part No.	Description				Remark
R335	1-249-417-11	CARBON	1K	5%	1/6W	
R336	1-247-897-00	CARBON	560K	5%	1/6W	
R337	1-247-895-00	CARBON	470K	5%	1/6W	
R339	1-247-819-00	CARBON	330	5%	1/6W	
R340	1-249-437-11	CARBON	47K	5%	1/6W	
R341	1-247-857-00	CARBON	12K	5%	1/6W	
R342	1-249-429-11	CARBON	10K	5%	1/6W	
R343	1-247-696-11	CARBON	47	5%	1/4W	
R345	1-247-725-11	CARBON	10K	5%	1/4W	
R346	1-247-704-11	CARBON	220	5%	1/4W	
R348	1-247-815-00	CARBON	220	5%	1/6W	
R351	1-247-829-00	CARBON	820	5%	1/6W	
R352	1-247-725-11	CARBON	10K	5%	1/4W	
R354	1-246-537-00	CARBON	470K	5%	1/4W	
R356	1-246-517-00	CARBON	68K	5%	1/4W	
R357	1-247-903-00	CARBON	1M	5%	1/6W	
R359	1-249-415-11	CARBON	680	5%	1/6W	
R360	1-249-415-11	CARBON	680	5%	1/6W	
R361	1-247-823-00	CARBON	470	5%	1/6W	
R362	1-247-833-00	CARBON	1.2K	5%	1/6W	
R363	1-247-819-00	CARBON	330	5%	1/6W	
R364	1-247-833-00	CARBON	1.2K	5%	1/6W	
R365	1-247-837-00	CARBON	1.8K	5%	1/6W	
R366	1-249-422-11	CARBON	2.7K	5%	1/6W	
R367	1-249-425-11	CARBON	4.7K	5%	1/6W	
R377	1-247-823-00	CARBON	470	5%	1/6W	
R401	1-247-704-11	CARBON	220	5%	1/4W	
R402	1-247-704-11	CARBON	220	5%	1/4W	
R403	1-247-704-11	CARBON	220	5%	1/4W	
R406	1-247-815-00	CARBON	220	5%	1/6W	
R410	1-247-799-00	CARBON	47	5%	1/6W	
R411	1-247-819-00	CARBON	330	5%	1/6W	
R412	1-249-417-11	CARBON	1K	5%	1/6W	
R418	1-249-429-11	CARBON	10K	5%	1/6W	
R419	1-249-469-11	CARBON	100K	5%	1/4W	
R420	1-249-425-11	CARBON	4.7K	5%	1/6W	
R423	1-249-437-11	CARBON	47K	5%	1/6W	
R425	1-247-811-00	CARBON	150	5%	1/6W	
R427	1-214-761-00	METAL	22K	1%	1/4W	
R428	1-247-885-00	CARBON	180K	5%	1/6W	
R430	1-247-869-00	CARBON	39K	5%	1/6W	
R431	1-214-753-00	METAL	10K	1%	1/4W	
R433	1-249-425-11	CARBON	4.7K	5%	1/6W	
R437	1-247-145-00	CARBON	3.9K	5%	1/4W	
R438	1-214-915-00	METAL	120K	1%	1/2W	
R441	1-247-869-00	CARBON	39K	5%	1/6W	
R442	1-247-848-00	CARBON	5.1K	5%	1/6W	
R451	1-247-815-00	CARBON	220	5%	1/6W	
R453	1-247-799-00	CARBON	47	5%	1/6W	
R454	1-247-819-00	CARBON	330	5%	1/6W	
R456	1-247-799-00	CARBON	47	5%	1/6W	
R458	1-247-696-11	CARBON	47	5%	1/4W	
R460	1-249-425-11	CARBON	4.7K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R461	1-247-815-00	CARBON	220	5%	1/6W	
R462	1-247-799-00	CARBON	47	5%	1/6W	
R463	1-247-819-00	CARBON	330	5%	1/6W	
R465	1-247-799-00	CARBON	47	5%	1/6W	
R470	1-247-899-00	CARBON	680K	5%	1/6W	
R471	1-249-429-11	CARBON	10K	5%	1/6W	
R472	1-247-891-00	CARBON	330K	5%	1/6W	
R474	1-247-696-11	CARBON	47	5%	1/4W	
R479	1-249-425-11	CARBON	4.7K	5%	1/6W	
R488	1-247-717-11	CARBON	2.2K	5%	1/4W	
R493	1-249-433-11	CARBON	22K	5%	1/6W	
R494	1-249-409-11	CARBON	220	5%	1/6W	F
R495	1-249-409-11	CARBON	220	5%	1/6W	F
R496	1-249-409-11	CARBON	220	5%	1/6W	F
R503	1-249-417-11	CARBON	1K	5%	1/6W	
R505	1-247-845-00	CARBON	3.9K	5%	1/6W	
R506	1-247-845-00	CARBON	3.9K	5%	1/6W	
R508	1-247-869-00	CARBON	39K	5%	1/6W	
R519	1-247-833-00	CARBON	1.2K	5%	1/6W	
R520	1-249-429-11	CARBON	10K	5%	1/6W	
R521	1-249-429-11	CARBON	10K	5%	1/6W	
R522	1-249-429-11	CARBON	10K	5%	1/6W	
R523	1-247-895-00	CARBON	470K	5%	1/6W	
R598	1-247-805-00	CARBON	82	5%	1/6W	
R599	1-214-775-00	METAL	82K	1%	1/4W	

VARIABLE RESISTOR

RV201	1-228-723-00	RES, ADJ, CERAMIC CARBON	4.7K
RV202	1-228-723-00	RES, ADJ, CERAMIC CARBON	4.7K
RV301	1-228-720-00	RES, ADJ, CERAMIC CARBON	1K
RV302	1-228-719-00	RES, ADJ, CERAMIC CARBON	470
RV303	1-228-724-00	RES, ADJ, CERAMIC CARBON	10K
RV304	1-228-724-00	RES, ADJ, CERAMIC CARBON	10K
RV404	1-224-550-21	RES, ADJ, METAL GLAZE	220
RV406	1-228-721-00	RES, ADJ, CERAMIC CARBON	2.2K
RV407	1-228-724-00	RES, ADJ, CERAMIC CARBON	10K
RV408	1-228-724-00	RES, ADJ, CERAMIC CARBON	10K
RV410	1-224-550-21	RES, ADJ, METAL GLAZE	220

TRANSFORMER

T201	1-404-541-11	COIL
T202	1-404-467-00	COIL, VIF
T203	1-404-467-00	COIL, VIF
T204	1-404-505-00	COIL
T205	1-404-489-00	COIL
T301	1-425-786-00	TRANSFORMER, BANDPASS(BPT)

TUNER

TU101⚠	1-463-470-00	TUNER, ET (BT-896)

CRYSTAL

X101	1-567-192-11	OSCILLATOR, CERAMIC

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

A CR CG

Ref.No.	Part No.	Description			Remark
X102	1-567-254-11	OSCILLATOR, CERAMIC			
X301	1-527-722-00	OSCILLATOR, CRYSTAL			
**********					
	*1-615-623-11	CR BOARD			
		********			
	1-526-812-11	SOCKET, CRT			
	1-556-880-51	LEAD ASSY, HIGH-VOLTAGE			
	*4-026-251-00	SPACER, INSULATING			
		CAPACITOR			
C702	1-123-028-00	ELECT	2.2MF		350V
C703	1-102-050-00	CERAMIC	0.01MF		500V
C704	1-102-155-00	CERAMIC	330PF	20%	2KV
C705	1-102-155-00	CERAMIC	330PF	20%	2KV
C706	1-102-155-00	CERAMIC	330PF	20%	2KV
C707	1-102-267-00	CERAMIC	0.0068MF		500V
C708	1-102-074-00	CERAMIC	0.001MF	10%	50V
		CONNECTOR			
CR1	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P			
CR2	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P			
CR3	*1-508-786-00	2P PLUG (M)			
CR4	*1-508-784-00	1P PLUG			
		DIODE			
D701	8-719-911-19	DIODE 1SS119			
		COIL			
L701	1-407-701-00	MICRO INDUCTOR 47UH			
L702	1-407-364-00	COIL, SPOOK CHOKE 3.3UH			
L703	1-407-364-00	COIL, SPOOK CHOKE 3.3UH			
L704	1-407-694-00	MICRO INDUCTOR 12UH			
		NEON LAMP			
NL701	1-519-013-13	DISCHARGE TUBE			
		TRANSISTOR			
Q701	8-729-326-11	TRANSISTOR 2SC2611			
		RESISTOR			
R701	1-247-700-11	CARBON	100	5%	1/4W
R702	1-216-487-11	METAL OXIDE	12K	5%	3W F
R703	1-216-487-11	METAL OXIDE	12K	5%	3W F
R704	1-247-700-11	CARBON	100	5%	1/4W
R705	1-202-836-00	SOLID	56K		1/2W
R706	1-202-557-00	SOLID	220	5%	1/2W
R707	1-202-823-51	SOLID	2.7K		1/2W
R708	1-202-847-00	SOLID	560K		1/2W
R709	1-202-842-51	SOLID	220K		1/2W
R710	1-202-844-00	SOLID	330K		1/2W
R711	1-202-833-11	SOLID	18K		1/2W
R712	1-202-557-00	SOLID	220	10%	1/2W
		SPARK GAP			
SG701	1-519-063-XX	DISCHARGING GAP			
**********					
	*1-615-624-11	CG BOARD			
		********			
	1-526-812-11	SOCKET, CRT			
	1-556-880-51	LEAD ASSY, HIGH-VOLTAGE			
	*4-026-251-00	SPACER, INSULATING			
		CAPACITOR			
C722	1-123-028-00	ELECT	2.2MF		350V
C723	1-102-050-00	CERAMIC	0.01MF		500V
C724	1-102-155-00	CERAMIC	330PF	20%	2KV
C725	1-102-155-00	CERAMIC	330PF	20%	2KV
C726	1-102-155-00	CERAMIC	330PF	20%	2KV
C727	1-102-267-00	CERAMIC	0.0068MF		500V
C728	1-102-074-00	CERAMIC	0.001MF	10%	50V
		CONNECTOR			
CG1	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P			
CG2	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P			
CG3	*1-508-786-00	2P PLUG (M)			
CG4	*1-508-784-00	1P PLUG			
		DIODE			
D721	8-719-911-19	DIODE 1SS119			
		COIL			
L721	1-407-701-00	MICRO INDUCTOR 47UH			
L722	1-407-364-00	COIL, SPOOK CHOKE 3.3UH			
L723	1-407-364-00	COIL, SPOOK CHOKE 3.3UH			
L724	1-407-694-00	MICRO INDUCTOR 12UH			
		NEON LAMP			
NL721	1-519-013-13	DISCHARGE TUBE			
		TRANSISTOR			
Q721	8-729-326-11	TRANSISTOR 2SC2611			
		RESISTOR			
R721	1-247-700-11	CARBON	100	5%	1/4W
R722	1-216-487-11	METAL OXIDE	12K	5%	3W F
R723	1-216-487-11	METAL OXIDE	12K	5%	3W F
R724	1-247-700-11	CARBON	100	5%	1/4W
R725	1-202-836-00	SOLID	56K		1/2W
R726	1-202-557-00	SOLID	220	5%	1/2W
R727	1-202-823-51	SOLID	2.7K		1/2W

CG CB DA

Ref.No.	Part No.	Description			Remark
R728	1-202-847-00	SOLID	560K	1/2W	
R729	1-202-842-51	SOLID	220K	1/2W	
R730	1-202-844-00	SOLID	330K	1/2W	
R731	1-202-833-11	SOLID	18K	1/2W	
R732	1-202-557-00	SOLID	220	10% 1/2W	
		SPARK GAP			
SG721	1-519-063-XX	DISCHARGING GAP			
**********					
	*1-615-625-11	CB BOARD			
		********			
	1-526-812-11	SOCKET, CRT			
	1-556-880-81	LEAD ASSY, HIGH-VOLTAGE			
	*4-026-251-00	SPACER, INSULATING			
		CAPACITOR			
C742	1-123-028-00	ELECT	2.2MF		350V
C743	1-102-050-00	CERAMIC	0.01MF		500V
C744	1-102-155-00	CERAMIC	330PF	20%	2KV
C745	1-102-155-00	CERAMIC	330PF	20%	2KV
C746	1-102-155-00	CERAMIC	330PF	20%	2KV
C747	1-102-267-00	CERAMIC	0.0068MF		500V
C748	1-102-074-00	CERAMIC	0.001MF	10%	50V
		CONNECTOR			
CB1	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P			
CB2	*1-564-354-00	PLUG, CONNECTOR (2.5MM) 3P			
CB3	*1-508-786-00	2P PLUG (M)			
CB4	*1-508-784-00	1P PLUG			
		DIODE			
D741	8-719-911-19	DIODE 1SS119			
		COIL			
L741	1-407-701-00	MICRO INDUCTOR 47UH			
L742	1-407-364-00	COIL, SPOOK CHOKE 3.3UH			
L743	1-407-364-00	COIL, SPOOK CHOKE 3.3UH			
L744	1-407-694-00	MICRO INDUCTOR 12UH			
		NEON LAMP			
NL741	1-519-013-13	DISCHARGE TUBE			
		TRANSISTOR			
Q741	8-729-326-11	TRANSISTOR 2SC2611			
		RESISTOR			
R741	1-247-700-11	CARBON	100	5% 1/4W	
R742	1-216-487-11	METAL OXIDE	12K	5% 3W F	
R743	1-216-487-11	METAL OXIDE	12K	5% 3W F	
R744	1-247-700-11	CARBON	100	5% 1/4W	
R745	1-202-836-00	SOLID	56K	1/2W	
R746	1-202-557-00	SOLID	220	5% 1/2W	
R747	1-202-823-51	SOLID	2.7K	1/2W	
R748	1-202-847-00	SOLID	560K	1/2W	
R749	1-202-842-51	SOLID	220K	1/2W	
R750	1-202-844-00	SOLID	330K	1/2W	
R751	1-202-833-11	SOLID	18K	1/2W	
R752	1-202-557-00	SOLID	220	10% 1/2W	
		SPARK GAP			
SG741	1-519-063-XX	DISCHARGING GAP			
**********					
	*A-1340-793-A	DA BOARD, COMPLETE			
		**********			
	1-563-303-11	JACK BLOCK, PIN 3P			
	*4-352-844-01	PIN, LEAD, COATING			
		CAPACITOR			
C6001	1-123-318-00	ELECT	33MF	20%	16V
C6002	1-123-318-00	ELECT	33MF	20%	16V
C6004	1-123-332-00	ELECT	47MF	20%	16V
C6007	1-106-172-00	MYLAR	0.001MF	5%	50V
C6008	1-124-480-11	ELECT	470MF	20%	25V
C6009	1-123-380-00	ELECT	1MF	20%	50V
C6010	1-108-587-00	MYLAR	0.022MF	5%	50V
C6011	1-124-480-11	ELECT	470MF	20%	25V
C6012	1-108-794-91	MYLAR	0.0015MF	5%	50V
C6013	1-123-333-00	ELECT	100MF	20%	16V
C6014	1-123-356-00	ELECT	10MF	20%	16V
C6015	1-123-321-00	ELECT	220MF	20%	16V
C6017	1-123-333-00	ELECT	100MF	20%	16V
C6018	1-123-356-00	ELECT	10MF	20%	16V
C6019	1-123-333-00	ELECT	100MF	20%	16V
C6020	1-123-356-00	ELECT	10MF	20%	16V
C6021	1-123-333-00	ELECT	100MF	20%	16V
C6022	1-123-356-00	ELECT	10MF	20%	16V
C6023	1-123-356-00	ELECT	10MF	20%	25V
C6024	1-123-380-00	ELECT	1MF	20%	50V
C6025	1-108-812-91	MYLAR	0.047MF	5%	50V
C6026	1-108-794-91	MYLAR	0.0015MF	5%	50V
C6028	1-123-356-00	ELECT	10MF	20%	25V
C6029	1-123-356-00	ELECT	10MF	20%	16V
C6050	1-123-356-00	ELECT	10MF	20%	25V
C6051	1-123-318-00	ELECT	33MF	20%	16V
C6054	1-123-332-00	ELECT	47MF	20%	16V
C6058	1-123-356-00	ELECT	10MF	20%	16V
C6069	1-123-356-00	ELECT	10MF	20%	25V
C6210	1-123-356-00	ELECT	10MF	20%	16V
C6211	1-123-356-00	ELECT	10MF	20%	16V
C6212	1-123-332-00	ELECT	47MF	20%	16V
C6213	1-123-332-00	ELECT	47MF	20%	16V
C6214	1-123-332-00	ELECT	47MF	20%	16V

Ref.No.	Part No.	Description			Remark
C6215	1-123-332-00	ELECT	47MF	20%	16V
C6216	1-123-332-00	ELECT	47MF	20%	16V
C6217	1-123-356-00	ELECT	10MF	20%	16V
C6218	1-123-356-00	ELECT	10MF	20%	16V
C6219	1-123-356-00	ELECT	10MF	20%	16V
C6301	1-108-581-00	MYLAR	0.012MF	5%	50V
C6302	1-108-794-91	MYLAR	0.0015MF	5%	50V
C6303	1-123-332-00	ELECT	47MF	20%	16V
C6304	1-123-332-00	ELECT	47MF	20%	16V
C6305	1-123-369-00	ELECT	4.7MF	20%	50V
C6306	1-123-334-00	ELECT	220MF	20%	25V

DIODE

D6001	8-719-931-05	DIODE EQB01-05
D6002	8-719-931-05	DIODE EQB01-05
D6003	8-719-911-19	DIODE 1SS119
D6004	8-719-911-19	DIODE 1SS119
D6005	8-719-911-19	DIODE 1SS119
D6006	8-719-911-19	DIODE 1SS119
D6301	8-719-911-19	DIODE 1SS119

CONNECTOR

DA1	*1-564-444-11	PLUG, CONNECTOR (2.5MM) 8P
DA2	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P
DA3	*1-564-442-11	PLUG, CONNECTOR (2.5MM) 6P
DA4	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P
DA5	*1-564-444-11	PLUG, CONNECTOR (2.5MM) 8P
DA6	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P
DA7	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P
DA8	*1-564-444-11	PLUG, CONNECTOR (2.5MM) 8P

IC

IC6001	8-759-600-02	IC M5218L
IC6002	8-759-178-12	IC UPC78L12
IC6003	8-759-600-02	IC M5218L
IC6004	8-759-110-37	IC UPC1037H
IC6005	8-759-110-37	IC UPC1037H
IC6009	8-759-600-02	IC M5218L
IC6301	8-759-600-02	IC M5218L

COIL

L6301	1-408-163-00	MICRO INDUCTOR 5.6MMH

TRANSISTOR

Q6001	8-729-178-54	TRANSISTOR 2SC2785
Q6002	8-729-178-54	TRANSISTOR 2SC2785
Q6003	8-729-178-54	TRANSISTOR 2SC2785
Q6004	8-729-178-54	TRANSISTOR 2SC2785
Q6007	8-729-178-54	TRANSISTOR 2SC2785
Q6301	8-729-178-54	TRANSISTOR 2SC2785
Q6302	8-729-178-54	TRANSISTOR 2SC2785
Q6303	8-729-117-54	TRANSISTOR 2SA1175

Ref.No.	Part No.	Description				Remark
Q6305	8-729-178-54	TRANSISTOR 2SC2785				

RESISTOR

R6001	1-215-457-00	METAL	33K	1%	1/6W	
R6002	1-215-457-00	METAL	33K	1%	1/6W	
R6003	1-215-457-00	METAL	33K	1%	1/6W	
R6004	1-215-457-00	METAL	33K	1%	1/6W	
R6005	1-215-866-11	METAL OXIDE	330	5%	1W	F
R6006	1-215-866-11	METAL OXIDE	330	5%	1W	F
R6007	1-215-429-00	METAL	2.2K	1%	1/6W	
R6008	1-215-428-00	METAL	2K	1%	1/6W	
R6009	1-215-433-00	METAL	3.3K	1%	1/6W	
R6010	1-215-441-00	METAL	6.8K	1%	1/6W	
R6011	1-215-445-00	METAL	10K	1%	1/6W	
R6012	1-215-435-00	METAL	3.9K	1%	1/6W	
R6013	1-215-429-00	METAL	2.2K	1%	1/6W	
R6014	1-215-428-00	METAL	2K	1%	1/6W	
R6015	1-215-433-00	METAL	3.3K	1%	1/6W	
R6016	1-215-441-00	METAL	6.8K	1%	1/6W	
R6017	1-215-445-00	METAL	10K	1%	1/6W	
R6018	1-215-435-00	METAL	3.9K	1%	1/6W	
R6019	1-215-421-00	METAL	1K	1%	1/6W	
R6020	1-215-439-00	METAL	5.6K	1%	1/6W	
R6021	1-215-441-00	METAL	6.8K	1%	1/6W	
R6022	1-215-439-00	METAL	5.6K	1%	1/6W	
R6023	1-215-421-00	METAL	1K	1%	1/6W	
R6024	1-215-421-00	METAL	1K	1%	1/6W	
R6025	1-215-429-00	METAL	2.2K	1%	1/6W	
R6026	1-215-425-00	METAL	1.5K	1%	1/6W	
R6027	1-249-417-11	CARBON	1K	5%	1/6W	
R6028	1-215-421-00	METAL	1K	1%	1/6W	
R6029	1-215-439-00	METAL	5.6K	1%	1/6W	
R6030	1-215-441-00	METAL	6.8K	1%	1/6W	
R6031	1-215-439-00	METAL	5.6K	1%	1/6W	
R6032	1-215-421-00	METAL	1K	1%	1/6W	
R6033	1-215-421-00	METAL	1K	1%	1/6W	
R6034	1-249-429-11	CARBON	10K	5%	1/6W	
R6035	1-249-429-11	CARBON	10K	5%	1/6W	
R6036	1-249-417-11	CARBON	1K	5%	1/6W	
R6037	1-249-429-11	CARBON	10K	5%	1/6W	
R6038	1-249-429-11	CARBON	10K	5%	1/6W	
R6039	1-249-429-11	CARBON	10K	5%	1/6W	
R6040	1-249-417-11	CARBON	1K	5%	1/6W	
R6048	1-249-429-11	CARBON	10K	5%	1/6W	
R6056	1-247-849-00	CARBON	5.6K	5%	1/6W	
R6057	1-249-415-11	CARBON	680	5%	1/6W	
R6058	1-249-434-11	CARBON	27K	5%	1/6W	
R6059	1-247-823-00	CARBON	470	5%	1/6W	
R6060	1-247-887-00	CARBON	220K	5%	1/6W	
R6063	1-249-434-11	CARBON	27K	5%	1/6W	
R6064	1-247-823-00	CARBON	470	5%	1/6W	
R6065	1-247-887-00	CARBON	220K	5%	1/6W	
R6068	1-249-429-11	CARBON	10K	5%	1/6W	

KPR-36XBR
RM-736/APM-X4

DA

Ref.No.	Part No.	Description				Remark
R6069	1-249-429-11	CARBON	10K	5%	1/6W	
R6070	1-215-421-00	METAL	1K	1%	1/6W	
R6071	1-215-461-00	METAL	47K	1%	1/6W	
R6072	1-249-435-11	CARBON	33K	5%	1/6W	
R6073	1-215-445-00	METAL	10K	1%	1/6W	
R6074	1-249-440-11	CARBON	82K	5%	1/6W	
R6075	1-215-435-00	METAL	3.9K	1%	1/6W	
R6076	1-215-439-00	METAL	5.6K	1%	1/6W	
R6077	1-249-417-11	CARBON	1K	5%	1/6W	
R6078	1-249-429-11	CARBON	10K	5%	1/6W	
R6079	1-249-429-11	CARBON	10K	5%	1/6W	
R6080	1-215-421-00	METAL	1K	1%	1/6W	
R6081	1-215-461-00	METAL	47K	1%	1/6W	
R6082	1-249-405-11	CARBON	100	5%	1/6W	
R6083	1-249-405-11	CARBON	100	5%	1/6W	
R6084	1-249-429-11	CARBON	10K	5%	1/6W	
R6085	1-249-429-11	CARBON	10K	5%	1/6W	
R6086	1-249-429-11	CARBON	10K	5%	1/6W	
R6087	1-249-429-11	CARBON	10K	5%	1/6W	
R6088	1-249-440-11	CARBON	82K	5%	1/6W	
R6089	1-215-445-00	METAL	10K	1%	1/6W	
R6090	1-215-433-00	METAL	3.3K	1%	1/6W	
R6091	1-215-435-00	METAL	3.9K	1%	1/6W	
R6092	1-215-441-00	METAL	6.8K	1%	1/6W	
R6093	1-215-435-00	METAL	3.9K	1%	1/6W	
R6094	1-215-425-00	METAL	1.5K	1%	1/6W	
R6095	1-215-441-00	METAL	6.8K	1%	1/6W	
R6096	1-215-439-00	METAL	5.6K	1%	1/6W	
R6097	1-215-439-00	METAL	5.6K	1%	1/6W	
R6098	1-215-439-00	METAL	5.6K	1%	1/6W	
R6099	1-215-445-00	METAL	10K	1%	1/6W	
R6100	1-215-445-00	METAL	10K	1%	1/6W	
R6122	1-249-425-11	CARBON	4.7K	5%	1/6W	
R6123	1-249-425-11	CARBON	4.7K	5%	1/6W	
R6154	1-215-445-00	METAL	10K	1%	1/6W	
R6155	1-249-435-11	CARBON	33K	5%	1/6W	
R6156	1-249-405-11	CARBON	100	5%	1/6W	
R6157	1-249-405-11	CARBON	100	5%	1/6W	
R6176	1-215-441-00	METAL	6.8K	1%	1/6W	
R6201	1-247-899-00	CARBON	680K	5%	1/6W	
R6202	1-247-891-00	CARBON	330K	5%	1/6W	
R6210	1-249-429-11	CARBON	10K	5%	1/6W	
R6211	1-247-853-00	CARBON	8.2K	5%	1/6W	
R6212	1-249-405-11	CARBON	100	5%	1/6W	
R6213	1-249-405-11	CARBON	100	5%	1/6W	
R6214	1-249-429-11	CARBON	10K	5%	1/6W	
R6215	1-247-853-00	CARBON	8.2K	5%	1/6W	
R6216	1-249-417-11	CARBON	1K	5%	1/6W	
R6217	1-215-439-00	METAL	5.6K	1%	1/6W	
R6218	1-215-436-00	METAL	4.3K	1%	1/6W	
R6219	1-215-415-00	METAL	560	1%	1/6W	
R6220	1-215-421-00	METAL	1K	1%	1/6W	
R6221	1-215-441-00	METAL	6.8K	1%	1/6W	

Ref.No.	Part No.	Description				Remark
R6301	1-249-441-11	CARBON	100K	5%	1/6W	
R6302	1-249-441-11	CARBON	100K	5%	1/6W	
R6303	1-249-429-11	CARBON	10K	5%	1/6W	
R6304	1-249-417-11	CARBON	1K	5%	1/6W	
R6305	1-249-405-11	CARBON	100	5%	1/6W	
R6306	1-247-893-00	CARBON	390K	5%	1/6W	
R6307	1-249-405-11	CARBON	100	5%	1/6W	
R6308	1-247-821-00	CARBON	390	5%	1/6W	
R6309	1-247-813-00	CARBON	180	5%	1/6W	
R6310	1-247-813-00	CARBON	180	5%	1/6W	
R6311	1-249-429-11	CARBON	10K	5%	1/6W	
R6312	1-249-417-11	CARBON	1K	5%	1/6W	
R6313	1-249-429-11	CARBON	10K	5%	1/6W	
R6314	1-249-417-11	CARBON	1K	5%	1/6W	
R6315	1-249-429-11	CARBON	10K	5%	1/6W	
R6316	1-249-429-11	CARBON	10K	5%	1/6W	
R6317	1-249-441-11	CARBON	100K	5%	1/6W	
R6318	1-249-425-11	CARBON	4.7K	5%	1/6W	
R6321	1-249-417-11	CARBON	1K	5%	1/6W	
R6323	1-249-417-11	CARBON	1K	5%	1/6W	
R6324	1-249-417-11	CARBON	1K	5%	1/6W	

VARIABLE RESISTOR

RV6001	1-228-540-00	RES, VAR, CARBON 10K
RV6002	1-228-540-00	RES, VAR, CARBON 10K
RV6003	1-228-540-00	RES, VAR, CARBON 10K
RV6004	1-228-540-00	RES, VAR, CARBON 10K
RV6006	1-228-540-00	RES, VAR, CARBON 10K
RV6007	1-230-631-11	RES, ADJ, CARBON 22K
RV6008	1-230-630-11	RES, ADJ, CARBON 10K
RV6009	1-230-631-11	RES, ADJ, CARBON 22K
RV6010	1-230-631-11	RES, ADJ, CARBON 22K
RV6011	1-230-631-11	RES, ADJ, CARBON 22K
RV6012	1-230-631-11	RES, ADJ, CARBON 22K
RV6013	1-230-631-11	RES, ADJ, CARBON 22K
RV6014	1-230-630-11	RES, ADJ, CARBON 10K
RV6015	1-230-631-11	RES, ADJ, CARBON 22K
RV6016	1-230-631-11	RES, ADJ, CARBON 22K
RV6017	1-230-631-11	RES, ADJ, CARBON 22K
RV6018	1-230-631-11	RES, ADJ, CARBON 22K
RV6019	1-230-631-11	RES, ADJ, CARBON 22K
RV6020	1-230-631-11	RES, ADJ, CARBON 22K
RV6021	1-230-631-11	RES, ADJ, CARBON 22K
RV6022	1-230-631-11	RES, ADJ, CARBON 22K
RV6023	1-230-631-11	RES, ADJ, CARBON 22K
RV6024	1-230-271-00	RES, ADJ, CARBON 4.7K
RV6025	1-230-631-11	RES, ADJ, CARBON 22K
RV6026	1-230-631-11	RES, ADJ, CARBON 22K
RV6027	1-230-631-11	RES, ADJ, CARBON 22K
RV6028	1-230-631-11	RES, ADJ, CARBON 22K
RV6029	1-230-631-11	RES, ADJ, CARBON 22K
RV6030	1-230-631-11	RES, ADJ, CARBON 22K
RV6031	1-230-631-11	RES, ADJ, CARBON 22K

Ref.No.	Part No.	Description			Remark
RV6032	1-230-631-11	RES, ADJ, CARBON 22K			
RV6033	1-230-271-00	RES, ADJ, CARBON 4.7K			
RV6034	1-230-633-41	RES, ADJ, CARBON 47K			
RV6035	1-230-633-41	RES, ADJ, CARBON 47K			
RV6036	1-230-631-11	RES, ADJ, CARBON 22K			
RV6038	1-230-631-11	RES, ADJ, CARBON 22K			
RV6039	1-230-631-11	RES, ADJ, CARBON 22K			
RV6040	1-230-631-11	RES, ADJ, CARBON 22K			
RV6041	1-230-631-11	RES, ADJ, CARBON 22K			
RV6042	1-230-631-11	RES, ADJ, CARBON 22K			
RV6043	1-230-631-11	RES, ADJ, CARBON 22K			
RV6044	1-230-631-11	RES, ADJ, CARBON 22K			
RV6045	1-230-631-11	RES, ADJ, CARBON 22K			
RV6046	1-230-631-11	RES, ADJ, CARBON 22K			
RV6047	1-230-631-11	RES, ADJ, CARBON 22K			
RV6048	1-230-631-11	RES, ADJ, CARBON 22K			
RV6049	1-230-631-11	RES, ADJ, CARBON 22K			
RV6050	1-230-631-11	RES, ADJ, CARBON 22K			
RV6051	1-230-631-11	RES, ADJ, CARBON 22K			
RV6061	1-230-271-00	RES, ADJ, CARBON 4.7K			
RV6062	1-230-628-11	RES, ADJ, CARBON 2.2K			
RV6063	1-230-271-00	RES, ADJ, CARBON 4.7K			
		SWITCH			
S6001	1-553-651-00	SWITCH, SLIDE			
S6002	1-553-716-00	SWITCH, SLIDE			
		**********			
	*A-1340-794-A	DB BOARD, COMPLETE			
		**********			
	*4-348-704-00	HEAT SINK (A)			
		CAPACITOR			
C6031	1-123-333-00	ELECT	100MF	20%	25V
C6032	1-123-332-00	ELECT	47MF	20%	25V
C6033	1-108-614-91	MYLAR	0.001MF	10%	100V
C6034	1-123-333-00	ELECT	100MF	20%	25V
C6035	1-123-332-00	ELECT	47MF	20%	25V
C6036	1-108-614-91	MYLAR	0.001MF	10%	100V
C6037	1-123-333-00	ELECT	100MF	20%	25V
C6038	1-123-332-00	ELECT	47MF	20%	25V
C6039	1-108-614-91	MYLAR	0.001MF	10%	100V
C6040	1-123-333-00	ELECT	100MF	20%	25V
C6041	1-123-332-00	ELECT	47MF	20%	25V
C6042	1-106-172-00	MYLAR	0.001MF	5%	50V
C6043	1-102-947-00	CERAMIC	10PF	5%	50V
C6044	1-102-824-21	CERAMIC	470PF	5%	50V
C6045	1-102-824-21	CERAMIC	470PF	5%	50V
C6046	1-102-824-21	CERAMIC	470PF	5%	50V
C6047	1-102-824-21	CERAMIC	470PF	5%	50V
C6048	1-102-824-21	CERAMIC	470PF	5%	50V
C6052	1-102-973-00	CERAMIC	100PF	5%	50V

Ref.No.	Part No.	Description			Remark
C6201	1-123-356-00	ELECT	10MF	20%	25V
C6202	1-123-356-00	ELECT	10MF	20%	25V
		MICRO FUSE			
PS6001⚠	1-532-775-21	FUSE, MICRO (SECONDARY)	800mA/125V		
PS6002⚠	1-532-774-21	FUSE, MICRO (SECONDARY)	630mA/125V		
PS6003⚠	1-532-775-21	FUSE, MICRO (SECONDARY)	800mA/125V		
PS6004⚠	1-532-774-21	FUSE, MICRO (SECONDARY)	630mA/125V		
PS6005⚠	1-532-775-21	FUSE, MICRO (SECONDARY)	800mA/125V		
PS6006⚠	1-532-775-21	FUSE, MICRO (SECONDARY)	800mA/125V		
		CONNECTOR			
DB1	*1-560-278-00	PLUG, CONNECTOR 4P			
DB2	*1-560-721-21	PLUG, CONNECTOR 2P			
DB3	*1-560-278-00	PLUG, CONNECTOR 5P			
DB4	*1-560-278-00	PLUG, CONNECTOR 7P			
DB5	*1-560-278-00	PLUG, CONNECTOR 8P			
		IC			
IC6006	8-749-941-21	IC STK4121II			
IC6007	8-759-652-14	IC M5214L			
IC6008	8-749-941-21	IC STK4121II			
		TRANSISTOR			
Q6005	8-729-315-63	TRANSISTOR 2SB856			
Q6006	8-729-382-62	TRANSISTOR 2SC1826-O			
		RESISTOR			
R6101	1-215-399-00	METAL	120	1%	1/6W
R6102	1-215-399-00	METAL	120	1%	1/6W
R6103	1-215-421-00	METAL	1K	1%	1/6W
R6104	1-215-421-00	METAL	1K	1%	1/6W
R6105	1-249-421-11	CARBON	2.2K	5%	1/6W
R6106	1-249-421-11	CARBON	2.2K	5%	1/6W
R6107	1-216-426-11	METAL OXIDE	82	5%	1W F
R6108	1-216-349-00	METAL OXIDE	1	5%	1W F
R6109	1-216-373-11	METAL OXIDE	2.2	5%	2W F
R6110	1-246-981-00	CARBON	4.7	5%	1/8W F
R6111	1-216-373-11	METAL OXIDE	2.2	5%	2W F
R6112	1-216-426-11	METAL OXIDE	82	5%	1W F
R6113	1-246-981-00	CARBON	4.7	5%	1/8W F
R6114	1-216-349-00	METAL OXIDE	1	5%	1W F
R6115	1-249-421-11	CARBON	2.2K	5%	1/6W
R6116	1-249-421-11	CARBON	2.2K	5%	1/6W
R6117	1-215-421-00	METAL	1K	1%	1/6W
R6118	1-215-421-00	METAL	1K	1%	1/6W
R6119	1-215-399-00	METAL	120	1%	1/6W
R6120	1-215-399-00	METAL	120	1%	1/6W
R6121	1-215-399-00	METAL	120	1%	1/6W
R6122	1-215-399-00	METAL	120	1%	1/6W
R6123	1-215-421-00	METAL	1K	1%	1/6W
R6124	1-215-373-31	METAL	10	1%	1/6W
R6125	1-215-373-31	METAL	10	1%	1/6W

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Ref.No.	Part No.	Description			Remark
R6126	1-215-373-31	METAL	10	1%	1/6W
R6127	1-215-373-31	METAL	10	1%	1/6W
R6128	1-215-429-00	METAL	2.2K	1%	1/6W
R6129	1-249-405-11	CARBON	100	5%	1/6W (USA ONLY)
	⚠ 1-247-807-91	CARBON	100	5%	1/6W (CND ONLY)
R6130	1-249-405-11	CARBON	100	5%	1/6W (USA ONLY)
	⚠ 1-247-807-91	CARBON	100	5%	1/6W (CND ONLY)
R6131	1-247-819-00	CARBON	330	5%	1/6W
R6132	1-215-861-00	METAL OXIDE	47	5%	1W F
R6134	1-215-399-00	METAL	120	1%	1/6W
R6135	1-215-399-00	METAL	120	1%	1/6W
R6136	1-215-421-00	METAL	1K	1%	1/6W
R6137	1-215-421-00	METAL	1K	1%	1/6W
R6138	1-216-349-00	METAL OXIDE	1	5%	1W F
R6139	1-216-426-11	METAL OXIDE	82	5%	1W F
R6140	1-216-373-11	METAL OXIDE	2.2	5%	2W F
R6141	1-249-421-11	CARBON	2.2K	5%	1/6W
R6142	1-249-421-11	CARBON	2.2K	5%	1/6W
R6143	1-246-981-00	CARBON	4.7	5%	1/8W F
R6144	1-246-981-00	CARBON	4.7	5%	1/8W F
R6145	1-216-373-11	METAL OXIDE	2.2	5%	2W F
R6146	1-216-426-11	METAL OXIDE	82	5%	1W F
R6147	1-216-349-00	METAL OXIDE	1	5%	1W F
R6148	1-215-421-00	METAL	1K	1%	1/6W
R6149	1-215-421-00	METAL	1K	1%	1/6W
R6150	1-215-399-00	METAL	120	1%	1/6W
R6151	1-215-399-00	METAL	120	1%	1/6W
R6152	1-249-421-11	CARBON	2.2K	5%	1/6W
R6153	1-249-421-11	CARBON	2.2K	5%	1/6W
R6203	1-249-417-11	CARBON	1K	5%	1/6W
R6204	1-249-417-11	CARBON	1K	5%	1/6W
R6205	1-249-405-11	CARBON	100	5%	1/6W
R6206	1-249-417-11	CARBON	1K	5%	1/6W
R6207	1-249-417-11	CARBON	1K	5%	1/6W
R6208	1-249-405-11	CARBON	100	5%	1/6W
		**********			
	*A-1345-604-A	E BOARD, COMPLETE (USA ONLY)			
		**********			
	*A-1345-655-A	E BOARD, COMPLETE (CND ONLY)			
		**********			
	*1-533-146-00	HOLDER, FUSE			
	*4-323-833-00	HEAT SINK, PIN OUT			
	*4-332-214-00	REINFORCEMENT, PC BOARD			
	*4-363-404-00	HOLDER, IC			
	4-375-412-01	SPACER, MICA			
	*4-375-507-01	COVER, CAPACITOR			
	*4-821-501-00	HEAT SINK			
		CAPACITOR			
C5001	1-108-614-91	MYLAR	0.001MF	10%	100V
C5002	1-162-117-00	CERAMIC	100PF	10%	500V
C5003	1-102-228-00	CERAMIC	470PF	10%	500V
C5005	1-123-380-00	ELECT	1MF	20%	50V
C5006	1-108-845-00	MYLAR	0.047MF	10%	50V

Ref.No.	Part No.	Description			Remark
C5007	1-106-220-00	MYLAR	0.1MF	10%	100V
C5008	1-106-192-00	MYLAR	0.0068MF	10%	100V
C5009⚠	1-136-311-51	FILM	0.47MF	20%	125V
C5011	1-108-630-91	MYLAR	0.022MF	10%	100V
C5012	1-123-356-00	ELECT	10MF	20%	16V
C5013	1-130-868-00	FILM	0.0056MF	5%	50V
C5014	1-123-369-00	ELECT	4.7MF	20%	25V
C5015	1-123-381-00	ELECT	2.2MF	20%	50V
C5016	1-123-356-00	ELECT	10MF	20%	16V
C5017	1-124-005-11	ELECT	4.7MF	20%	50V
C5018	1-123-333-00	ELECT	100MF	20%	16V
C5019	1-123-369-00	ELECT	4.7MF	20%	25V
C5020	1-102-820-00	CERAMIC	330PF	5%	50V
C5021	1-106-196-00	MYLAR	0.01MF	10%	100V
C5022	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C5023	1-106-190-00	MYLAR	0.0056MF	10%	100V
C5024	1-123-324-00	ELECT	1000MF	20%	16V
C5025	1-123-380-00	ELECT	1MF	20%	50V
C5026	1-123-930-00	ELECT	2.2MF	20%	160V
C5027	1-123-380-00	ELECT	1MF	20%	50V
C5028	1-106-196-00	MYLAR	0.01MF	10%	100V
C5029	1-123-379-00	ELECT	0.47MF	20%	50V
C5030	1-136-173-00	FILM	0.47MF	5%	50V
C5031	1-108-812-91	MYLAR	0.047MF	5%	50V
C5032	1-123-929-00	ELECT	1MF		160V
C5033	1-108-579-00	MYLAR	0.01MF	5%	50V
C5034	1-102-820-00	CERAMIC	330PF	5%	50V
C5035	1-106-208-00	MYLAR	0.033MF	10%	100V
C5036	1-102-820-00	CERAMIC	330PF	5%	50V
C5037	1-108-688-91	MYLAR	0.0047MF	10%	200V
C5038	1-136-111-00	FILM	1MF	5%	200V
C5039	1-136-108-00	FILM	0.43MF	5%	200V
C5043	1-123-930-00	ELECT	2.2MF	20%	160V
C5045	1-123-356-00	ELECT	10MF	20%	16V
C5052	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C5053	1-123-379-00	ELECT	0.47MF	20%	50V
C5054	1-102-973-00	CERAMIC	100PF	5%	50V
C5055	1-106-385-00	MYLAR	0.056MF	10%	200V
C5056	1-123-933-00	ELECT	10MF	20%	160V
C5057	1-102-244-00	CERAMIC	220PF	10%	500V
C5058⚠	1-136-477-11	FILM	0.009MF	3%	1.6KV
C5059⚠	1-162-116-51	CERAMIC	680PF	10%	2KV
C5060	1-108-692-81	MYLAR	0.01MF	10%	200V
C5061	1-123-024-00	ELECT	33MF		160V
C5062	1-123-022-00	ELECT	22MF		350V
C5063	1-123-933-00	ELECT	10MF	20%	160V
C5064	1-108-682-00	MYLAR	0.0015MF	10%	200V
C5065	1-123-356-00	ELECT	10MF	20%	16V
C5066	1-102-244-00	CERAMIC	220PF	10%	500V
C5068	1-106-212-00	MYLAR	0.047MF	10%	100V
C5069	1-106-220-00	MYLAR	0.1MF	10%	100V
C5070	1-123-333-00	ELECT	100MF	20%	25V
C5071	1-101-006-21	CERAMIC	0.047MF		50V

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Ref.No.	Part No.	Description				Remark
C5072	1-108-431-00	MYLAR	0.068MF	10%	200V	
C5073	1-123-318-00	ELECT	33MF	20%	16V	
C5074	1-106-212-00	MYLAR	0.047MF	10%	100V	
C5076	1-123-323-00	ELECT	470MF	20%	16V	
C5077	1-123-336-00	ELECT	470MF	20%	25V	
C5078	1-102-030-00	CERAMIC	330PF	10%	500V	
C5079	1-123-332-00	ELECT	47MF	20%	25V	
C5080	1-123-332-00	ELECT	47MF	20%	25V	
C5090	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C5091	1-123-607-00	ELECT	0.1MF	20%	50V	
C5092	1-123-929-00	ELECT	1MF	20%	160V	
C5094	1-123-332-00	ELECT	47MF	20%	16V	
C5095	1-123-360-00	ELECT	100MF	20%	50V	
C5096	1-123-360-00	ELECT	100MF	20%	50V	
C5097	1-123-360-00	ELECT	100MF	20%	50V	
C5098	1-123-363-00	ELECT	470MF	20%	50V	
C5099	1-125-186-00	ELECT(BLOCK)	560MF		200V	
C5100	1-125-186-00	ELECT(BLOCK)	560MF		200V	
C5101	1-161-830-00	CERAMIC	0.0047MF		500V	
⧓C5119⚠		CERAMIC			2KV	
C5120	1-102-157-00	CERAMIC	560PF	10%	500V	
C5121	1-108-849-00	MYLAR	0.1MF	10%	50V	
C5122	1-108-427-00	MYLAR	0.033MF	10%	200V	
C5123	1-123-933-00	ELECT	10MF	20%	160V	
C5124	1-102-030-00	CERAMIC	330PF	10%	500V	
C5125	1-108-427-00	MYLAR	0.033MF	10%	200V	
C5126⚠	1-136-311-51	FILM	0.47MF	20%	125V	
C5127⚠	1-136-311-51	FILM	0.47MF	20%	125V	
C5128⚠	1-161-743-51	CERAMIC	0.0047MF		400V	
C5129⚠	1-161-743-51	CERAMIC	0.0047MF		400V	
C5130	1-123-333-00	ELECT	100MF	20%	16V	
C5131	1-123-356-00	ELECT	10MF	20%	16V	
C5132	1-123-380-00	ELECT	1MF	20%	50V	
C5133	1-102-973-00	CERAMIC	100PF	5%	50V	
C5134	1-123-330-00	ELECT	22MF	20%	25V	
C5135	1-102-973-00	CERAMIC	100PF	5%	50V	
C5136	1-123-338-00	ELECT	2200MF	20%	25V	
C5137	1-108-845-00	MYLAR	0.047MF	10%	50V	
C5138	1-123-338-00	ELECT	2200MF	20%	25V	
C5139	1-108-843-91	MYLAR	0.033MF	10%	50V	
C5140	1-123-330-00	ELECT	22MF	20%	25V	
C5141	1-123-330-00	ELECT	22MF	20%	25V	
C5142	1-102-973-00	CERAMIC	100PF	5%	50V	
C5143	1-123-380-00	ELECT	1MF	20%	50V	
C5144	1-102-973-00	CERAMIC	100PF	5%	50V	
C5145	1-108-843-91	MYLAR	0.033MF	10%	50V	
C5146	1-123-330-00	ELECT	22MF	20%	25V	
C5147	1-108-845-00	MYLAR	0.047MF	10%	50V	
C5148	1-108-587-00	MYLAR	0.022MF	5%	50V	
C5150	1-108-688-91	MYLAR	0.0047MF	10%	200V	
C5151	1-123-321-00	ELECT	220MF	20%	16V	
C5152	1-123-356-00	ELECT	10MF	20%	16V	
C5153	1-123-356-00	ELECT	10MF	20%	16V	

Ref.No.	Part No.	Description				Remark
C5154	1-123-311-00	ELECT	1000MF	20%	10V	
C5155	1-123-323-00	ELECT	470MF	20%	16V	
C5156	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C5157	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C5158	1-161-743-00	CERAMIC	0.0047MF		400V	
C5159	1-161-830-00	CERAMIC	0.0047MF		500V	
C5160	1-123-335-00	ELECT	330MF	20%	25V	
C5170	1-124-645-11	ELECT	10MF	20%	16V	
C5171	1-123-338-00	ELECT	2200MF	20%	25V	
C5172	1-123-338-00	ELECT	2200MF	20%	25V	
C5173	1-123-338-00	ELECT	2200MF	20%	25V	
C5174	1-123-338-00	ELECT	2200MF	20%	25V	
C5175	1-123-318-00	ELECT	33MF	20%	16V	
C5176	1-123-321-00	ELECT	220MF	20%	16V	
C5198	1-161-513-00	CERAMIC	470PF	20%	1.5KV	
C5199	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C5200	1-102-820-00	CERAMIC	330PF	5%	50V	
C5300	1-123-380-00	ELECT	1MF	20%	50V	

DIODE

D5001	8-719-911-19	DIODE 1SS119	
D5002	8-719-101-58	DIODE RD5.6E-L2	
D5003	8-719-911-19	DIODE 1SS119	
D5005	8-719-305-15	DIODE GH3F	
D5007	8-719-911-19	DIODE 1SS119	
D5008	8-719-305-15	DIODE GH3F	
D5010	8-719-300-76	DIODE RH1A	
D5011	8-719-300-76	DIODE RH1A	
D5015	8-719-200-02	DIODE 10E2	
D5016	8-719-300-38	DIODE GU-3A	
D5017	8-719-300-38	DIODE GU-3A (USA ONLY)	
⚠	8-719-300-38	DIODE GU-3A (CND ONLY)	
D5018	8-719-511-20	DIODE S1VB20	
D5019	8-719-503-06	DIODE S3WB60Z (USA ONLY)	
⚠	8-719-530-60	DIODE S3WB60 (CND ONLY)	
	4-369-267-01	SPACER, MICA; D5019	
D5020	8-719-911-19	DIODE 1SS119	
D5021	8-719-911-55	DIODE U05G	
D5022	8-719-911-19	DIODE 1SS119	
D5023	8-719-911-19	DIODE 1SS119	
D5026	8-719-100-35	DIODE RD5.6E-B2	
⧓D5027⚠		DIODE	
D5028	8-719-911-19	DIODE 1SS119	
D5029	8-719-102-72	DIODE RD5.6E-N3	
D5030	8-719-200-02	DIODE 10E2	
D5031	8-719-911-19	DIODE 1SS119	
D5032	8-719-100-57	DIODE RD10E-B2	
D5033	8-719-911-19	DIODE 1SS119	
D5034	8-719-911-19	DIODE 1SS119	
D5035	8-719-100-57	DIODE RD10E-B2	
D5036	8-719-911-19	DIODE 1SS119	
D5037	8-719-100-68	DIODE RD13E-B2	
D5038	8-719-911-19	DIODE 1SS119	
D5039	8-719-911-19	DIODE 1SS119	
D5040	8-719-911-19	DIODE 1SS119	

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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KPR-36XBR
RM-736/APM-X4

E

Ref.No.	Part No.	Description	Remark
D5041	8-719-911-19	DIODE 1SS119	
D5042	8-719-911-19	DIODE 1SS119	
D5043	8-719-911-19	DIODE 1SS119	
D5044	8-719-911-19	DIODE 1SS119	
D5045	8-719-911-19	DIODE 1SS119	
D5046	8-719-100-68	DIODE RD13E-B2	
D5047	8-719-100-68	DIODE RD13E-B2	
D5048	8-719-911-19	DIODE 1SS119	
D5049	8-719-903-09	DIODE V30N	
D5050	8-719-911-19	DIODE 1SS119	
D5051	8-719-815-55	DIODE 1S1555	
D5052	8-719-903-09	DIODE V30N	
D5053	8-719-900-93	DIODE V09C	
D5054	8-719-100-68	DIODE RD13E-B2	
D5055	8-719-100-68	DIODE RD13E-B2	
D5056	8-719-200-02	DIODE 10E2	
D5060	8-719-100-86	DIODE RD22E-B2	
D5061	8-719-305-15	DIODE GH3F	
D5062	8-719-100-86	DIODE RD22E-B2	

CONNECTOR

E1	*1-508-765-00	3P PLUG (M)	
E2	*1-508-786-00	2P PLUG (M)	
E3	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
E4	*1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P	
E5	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P	
E6	*1-564-446-11	PLUG, CONNECTOR (2.5MM) 10P	
E10	*1-508-766-00	4P PLUG (M)	
E11	*1-508-765-00	3P PLUG (M)	
E12	*1-508-786-00	2P PLUG (M)	
E13	*1-564-353-00	PLUG, CONNECTOR (2.5MM) 2P	
E14	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P	
E15	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
E16	*1-506-347-21	4P PLUG	
E17	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P	
E18	*1-564-441-11	PLUG, CONNECTOR (2.5MM) 5P	
E19	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P	
E21	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P	
E22	*1-564-444-11	PLUG, CONNECTOR (2.5MM) 8P	
E23	*1-564-443-11	PLUG, CONNECTOR (2.5MM) 7P	
E26	*1-564-442-11	PLUG, CONNECTOR (2.5MM) 6P	
E28	*1-506-347-21	4P PLUG	
E29	*1-508-786-00	2P PLUG (M)	
E30	*1-506-347-21	4P PLUG	
E31	*1-508-786-00	2P PLUG (M)	
E33	*1-508-784-00	1P PLUG	
E35	*1-508-784-00	1P PLUG	
E36	*1-564-444-11	PLUG, CONNECTOR (2.5MM) 8P	

FUSE

F5001⚠	**1-532-656-11**	**FUSE, GLASS TUBE**	**6.3A/125V**
F5002⚠	**1-532-562-11**	**FUSE, GLASS TUBE**	**2.5A/125V**
F5003⚠	**1-532-562-11**	**FUSE, GLASS TUBE**	**2.5A/125V**

Ref.No.	Part No.	Description	Remark
F5004⚠	1-532-858-11	FUSE, GLASS TUBE 2.5A/125V	

CORE

FB5001	1-543-060-00	CORE	
FB5002	1-543-060-00	CORE	

IC

IC5001	8-759-100-60	IC UPC1377C	
IC5003	8-759-600-02	IC M5218L	
IC5005	8-759-700-06	IC NJM7812B	
IC5006	8-759-179-12	IC UPC7912H	
IC5007	8-759-178-12	IC UPC78L12	
IC5008	8-759-111-88	IC UPC1188H	
IC5009	8-759-111-88	IC UPC1188H	

COIL

L5002	1-425-612-00	COIL, ARE-CORE	
L5003	1-407-697-00	MICRO INDUCTOR 22UH (USA ONLY)	
⚠	1-407-697-11	MICRO INDUCTOR 22UH (CND ONLY)	
L5004	1-459-570-11	HLC	
L5005⚠	1-459-662-11	COIL, CHOKE 350UH	
L5007	1-407-696-00	MICRO INDUCTOR 18UH (USA ONLY)	
⚠	1-407-696-11	MICRO INDUCTOR 18UH (CND ONLY)	
L5008	1-407-690-00	MICRO INDUCTOR 5.6UH (USA ONLY)	
⚠	1-407-690-11	MICRO INDUCTOR 5.6UH (CND ONLY)	
L5009	1-407-720-00	CHOKE COIL	
L5010⚠	1-459-526-11	COIL, CHOKE	
L5011	1-459-104-00	COIL, DUST CORE	
L5014	1-459-104-00	COIL, DUST CORE	
L5015	1-459-060-00	COIL, DYNAMIC CONVERSION CHOKE	

NEON LAMP

NL5001	1-519-108-XX	LAMP, NEON ASSY	

TRANSISTOR

Q5001	8-729-178-54	TRANSISTOR 2SC2785	
Q5002	8-729-178-54	TRANSISTOR 2SC2785	
Q5003	8-729-178-54	TRANSISTOR 2SC2785	
Q5004	8-729-178-54	TRANSISTOR 2SC2785	
Q5006	8-729-178-54	TRANSISTOR 2SC2785	
Q5007	8-729-178-54	TRANSISTOR 2SC2785	
Q5009	8-729-178-54	TRANSISTOR 2SC2785	
Q5010	8-729-238-32	TRANSISTOR 2SC2383	
Q5011	8-729-105-62	TRANSISTOR 2SD560	
Q5012	8-729-101-62	TRANSISTOR 2SB601	
Q5013	8-729-213-12	TRANSISTOR 2SC2230A	
Q5014	8-729-800-80	TRANSISTOR 2SD1399-CA (USA ONLY)	
⚠	8-729-800-80	TRANSISTOR 2SD1399-CA (CND ONLY)	
Q5017	8-729-178-54	TRANSISTOR 2SC2785	
Q5020	8-729-178-54	TRANSISTOR 2SC2785	
Q5021	8-729-117-54	TRANSISTOR 2SA1175	
Q5022	8-729-178-54	TRANSISTOR 2SC2785	
Q5023	8-729-117-54	TRANSISTOR 2SA1175	
Q5024	8-729-201-78	TRANSISTOR 2SD1406	
Q5025	8-729-117-54	TRANSISTOR 2SA1175	
Q5026	8-729-178-54	TRANSISTOR 2SC2785	

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Ref.No.	Part No.	Description				Remark
Q5030	8-729-117-54	TRANSISTOR 2SA1175				
Q5031	8-729-178-54	TRANSISTOR 2SC2785				
Q5032	8-729-117-54	TRANSISTOR 2SA1175				
Q5033	8-729-178-54	TRANSISTOR 2SC2785				
		RESISTOR				
R5001	1-249-417-11	CARBON	1K	5%	1/6W	
R5002	1-249-417-11	CARBON	1K	5%	1/6W	
R5004	1-249-429-11	CARBON	10K	5%	1/6W	
R5005	1-216-464-11	METAL OXIDE	18K	5%	2W	F
R5006	1-247-843-00	CARBON	3.3K	5%	1/6W	
R5007	1-247-815-00	CARBON	220	5%	1/6W	
R5008	1-247-819-00	CARBON	330	5%	1/6W	
R5010	1-247-894-00	CARBON	430K	5%	1/6W	
R5012	1-249-433-11	CARBON	22K	5%	1/6W	
R5013	1-247-859-00	CARBON	15K	5%	1/6W	
R5014	1-249-417-11	CARBON	1K	5%	1/6W	
R5015	1-247-868-00	CARBON	36K	5%	1/6W	
R5016	1-249-440-11	CARBON	82K	5%	1/6W	
R5017	1-249-440-11	CARBON	82K	5%	1/6W	
R5018	1-247-843-00	CARBON	3.3K	5%	1/6W	
R5019	1-215-447-00	METAL	12K	1%	1/6W	
R5020	1-247-150-00	CARBON	6.2K	5%	1/4W	
R5021	1-215-437-00	METAL	4.7K	1%	1/6W	
R5022	1-215-471-00	METAL	120K	1%	1/6W	
R5024	1-215-473-00	METAL	150K	1%	1/6W	
R5025	1-249-435-11	CARBON	33K	5%	1/6W	
R5027	1-215-893-11	METAL OXIDE	1.5K	5%	2W	F
R5029	1-249-421-11	CARBON	2.2K	5%	1/6W	
R5030	1-247-845-00	CARBON	3.9K	5%	1/6W	
R5031	1-247-833-00	CARBON	1.2K	5%	1/6W	
R5033	1-247-873-00	CARBON	56K	5%	1/6W	
R5034	1-247-857-00	CARBON	12K	5%	1/6W	
R5035	1-215-463-00	METAL	56K	1%	1/6W	
R5036	1-249-429-11	CARBON	10K	5%	1/6W	
R5038	1-215-458-00	METAL	36K	1%	1/6W	
R5046	1-247-853-00	CARBON	8.2K	5%	1/6W	
R5058	1-215-453-00	METAL	22K	1%	1/6W	
R5059	1-215-449-00	METAL	15K	1%	1/6W	
R5060	1-215-453-00	METAL	22K	1%	1/6W	
R5061	1-247-713-11	CARBON	1K	5%	1/4W	
R5062	1-247-887-00	CARBON	220K	5%	1/6W	
R5063	1-249-419-11	CARBON	1.5K	5%	1/6W	
R5065	1-249-417-11	CARBON	1K	5%	1/6W	
R5066	1-206-521-61	METAL OXIDE	27	5%	3W	F
R5067	1-249-417-11	CARBON	1K	5%	1/6W	
R5069	1-247-705-11	CARBON	270	5%	1/4W	
R5070	1-247-883-00	CARBON	150K	5%	1/6W	
R5071	1-247-715-11	CARBON	1.5K	5%	1/4W	F (USA ONLY)
⚠	1-247-715-51	CARBON	1.5K	5%	1/4W	F (CND ONLY)
R5073	1-247-851-00	CARBON	6.8K	5%	1/6W	
R5074	1-215-403-00	METAL	180	1%	1/6W	
R5086	1-249-441-11	CARBON	100K	5%	1/6W	
R5087	1-214-595-00	METAL OXIDE	100K	5%	1W	F

Ref.No.	Part No.	Description				Remark
R5088⚠	1-205-798-11	CEMENTED	1.5	5%	20W	
R5089	1-215-415-00	METAL	560	1%	1/6W	
R5090	1-247-843-00	CARBON	3.3K	5%	1/6W	
R5091	1-247-722-11	CARBON	5.6K	5%	1/4W	F
R5092	1-205-778-11	CEMENTED	4.7	10%	7W	
R5093	1-206-439-00	METAL OXIDE	1	5%	2W	F
R5096	1-215-867-00	METAL OXIDE	470	5%	1W	F
R5098	1-249-405-11	CARBON	100	5%	1/6W	F
R5100	1-215-435-00	METAL	3.9K	1%	1/6W	
R5111	1-206-459-00	METAL OXIDE	6.8	5%	2W	F (USA ONLY)
⚠	1-206-459-61	METAL OXIDE	6.8	5%	2W	F (CND ONLY)
R5112	1-249-441-11	CARBON	100K	5%	1/6W	
R5113	1-249-429-11	CARBON	10K	5%	1/6W	
R5114	1-247-857-00	CARBON	12K	5%	1/6W	
R5115	1-249-421-11	CARBON	2.2K	5%	1/6W	
R5116	1-249-417-11	CARBON	1K	5%	1/6W	
R5117	1-249-421-11	CARBON	2.2K	5%	1/6W	
R5119	1-247-131-00	CARBON	1K	5%	1/4W	F
R5120	1-214-751-00	METAL	8.2K	1%	1/4W	
R5121	1-247-771-00	CARBON	3.3	5%	1/8W	F
R5122	1-249-429-11	CARBON	10K	5%	1/6W	
R5123	1-249-441-11	CARBON	100K	5%	1/6W	
R5124	1-249-425-11	CARBON	4.7K	5%	1/6W	
R5125	1-249-441-11	CARBON	100K	5%	1/6W	
R5126	1-249-441-11	CARBON	100K	5%	1/6W	
R5127	1-249-437-11	CARBON	47K	5%	1/6W	
R5128	1-249-417-11	CARBON	1K	5%	1/6W	
R5129	1-247-095-00	CARBON	33	5%	1/4W	
R5160	1-214-595-00	METAL OXIDE	100K	5%	1W	F
R5173	1-215-415-00	METAL	560	1%	1/6W	
R5174	1-247-700-11	CARBON	100	5%	1/4W	
R5175	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R5176	1-216-453-00	METAL OXIDE	270	5%	2W	F
R5177	1-249-429-11	CARBON	10K	5%	1/6W	
R5178	1-249-405-11	CARBON	100	5%	1/6W	
R5179	1-249-415-11	CARBON	680	5%	1/6W	
R5180	1-247-783-00	CARBON	10	5%	1/6W	
R5181	1-249-405-11	CARBON	100	5%	1/6W	
R5182	1-249-429-11	CARBON	10K	5%	1/6W	
R5183	1-215-441-00	METAL	6.8K	1%	1/6W	
R5184	1-215-415-00	METAL	560	1%	1/6W	
R5190	1-216-371-00	METAL OXIDE	1.5	5%	2W	F
R5191⚠	1-202-729-51	SOLID	6.8M	10%	1/2W	
R5192⚠	1-202-723-51	SOLID	2.2M	10%	1/2W	
R5193	1-247-873-00	CARBON	56K	5%	1/6W	
R5194	1-249-435-11	CARBON	33K	5%	1/6W	
R5195	1-247-821-00	CARBON	390	5%	1/6W	
R5196	1-247-859-00	CARBON	15K	5%	1/6W	
R5197	1-249-432-11	CARBON	18K	5%	1/6W	
R5198	1-249-441-11	CARBON	100K	5%	1/6W	
R5199	1-246-981-00	CARBON	4.7	5%	1/8W	F (USA ONLY)
⚠	1-246-981-11	CARBON	4.7	5%	1/8W	F (CND ONLY)
R5200	1-247-873-00	CARBON	56K	5%	1/6W	
R5201	1-249-435-11	CARBON	33K	5%	1/6W	
R5202	1-247-821-00	CARBON	390	5%	1/6W	

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Ref.No.	Part No.	Description				Remark
R5203	1-247-859-00	CARBON	15K	5%	1/6W	
R5204	1-249-432-11	CARBON	18K	5%	1/6W	
R5205	1-249-441-11	CARBON	100K	5%	1/6W	
R5206	1-246-981-00	CARBON	4.7	5%	1/8W	F
R5209	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R5210	1-215-451-00	METAL	18K	1%	1/6W	
R5211	1-249-417-11	CARBON	1K	5%	1/6W	
R5212	1-249-417-11	CARBON	1K	5%	1/6W	
R5214	1-215-876-00	METAL OXIDE	15K	5%	1W	F (USA ONLY)
⚠	1-215-876-51	METAL OXIDE	15K	5%	1W	F (CND ONLY)
R5215	1-216-371-00	METAL OXIDE	1.5	5%	2W	F
R5216	1-214-773-00	METAL	68K	1%	1/4W	
⊠R5217⚠		METAL			1/4W	
⊠R5218⚠		METAL			1/4W	
R5219	1-249-437-11	CARBON	47K	5%	1/6W	
R5220	1-249-437-11	CARBON	47K	5%	1/6W	
R5221	1-247-831-00	CARBON	1K	5%	1/8W	F
R5222	1-249-417-11	CARBON	1K	5%	1/6W	
R5223	1-249-429-11	CARBON	10K	5%	1/6W	
R5224	1-249-429-11	CARBON	10K	5%	1/6W	
R5225	1-249-429-11	CARBON	10K	5%	1/6W	
R5226	1-249-437-11	CARBON	47K	5%	1/6W	
R5227	1-249-429-11	CARBON	10K	5%	1/6W	
R5229	1-249-433-11	CARBON	22K	5%	1/6W	
R5230	1-249-425-11	CARBON	4.7K	5%	1/6W	
R5231	1-249-433-11	CARBON	22K	5%	1/6W	
R5232	1-247-857-00	CARBON	12K	5%	1/6W	
R5233	1-249-421-11	CARBON	2.2K	5%	1/6W	
R5236	1-249-405-11	CARBON	100	5%	1/6W	
R5237	1-247-891-00	CARBON	330K	5%	1/6W	
R5238	1-249-405-11	CARBON	100	5%	1/6W	
R5239	1-249-417-11	CARBON	1K	5%	1/6W	
R5240	1-249-433-11	CARBON	22K	5%	1/6W	
R5241	1-249-405-11	CARBON	100	5%	1/6W	
R5242	1-249-437-11	CARBON	47K	5%	1/6W	
R5246	1-215-427-00	METAL	1.8K	1%	1/6W	
R5247	1-215-445-00	METAL	10K	1%	1/6W	
R5248	1-215-477-00	METAL	220K	1%	1/6W	
R5249	1-215-449-00	METAL	15K	1%	1/6W	
R5250	1-215-449-00	METAL	15K	1%	1/6W	
R5251	1-249-417-11	CARBON	1K	5%	1/6W	
R5252	1-249-405-11	CARBON	100	5%	1/6W	
R5260	1-247-715-11	CARBON	1.5K	5%	1/4W	F (USA ONLY)
⚠	1-247-715-51	CARBON	1.5K	5%	1/4W	F (CND ONLY)
R5261	1-215-421-00	METAL	1K	1%	1/6W	
R5262	1-249-405-11	CARBON	100	5%	1/6W	
R5263	1-207-463-00	WIREWOUND	1	10%	1/2W	
R5264	1-207-463-00	WIREWOUND	1	10%	1/2W	
R5270	1-247-851-00	CARBON	6.8K	5%	1/6W	
R5271	1-247-843-00	CARBON	3.3K	5%	1/6W	
R5281	1-249-421-11	CARBON	2.2K	5%	1/6W	
R5297	1-205-778-11	CEMENTED	4.7	10%	7W	
R5299	1-249-417-11	CARBON	1K	5%	1/6W	
R5300	1-202-838-00	SOLID	100K		1/2W	
R5301	1-202-723-00	SOLID	2.2M	10%	1/2W	

Ref.No.	Part No.	Description				Remark
R5302	1-202-723-00	SOLID	2.2M	10%	1/2W	
R5303	1-202-723-00	SOLID	2.2M	10%	1/2W	
R5304	1-202-723-00	SOLID	2.2M	10%	1/2W	
R5305	1-249-417-11	CARBON	1K	5%	1/6W	
		VARIABLE RESISTOR				
RV5001	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K				
		SPARK GAP				
SG5001	1-519-063-XX	DISCHARGING GAP				
		TRANSFORMER				
T5001	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE				
T5002⚠	1-448-162-11	TRANSFORMER, POWER				
T5003	1-421-762-11	TRANSFORMER, FERRITE (DFT)				
T5004⚠	1-439-366-12	TRANSFORMER ASSY, FLYBACK				
T5005⚠	1-421-590-11	TRANSFORMER, LINE FILTER (USA ONLY)				
⚠	1-421-372-11	TRANSFORMER, FERRITE (LFT) (CND ONLY)				
T5006⚠	1-421-590-11	TRANSFORMER, LINE FILTER (USA ONLY)				
⚠	1-421-372-11	TRANSFORMER, FERRITE (FFT) (CND ONLY)				
		**********				
	*1-618-229-11	M BOARD				
		*******				
	*4-374-421-01	HOLDER (A), LED				
		CAPACITOR				
C1301	1-161-315-00	CERAMIC	220PF	10%	50V	
C1302	1-161-315-00	CERAMIC	220PF	10%	50V	
C1303	1-161-379-00	CERAMIC	0.01MF	20%	25V	
C1304	1-123-820-00	ELECT	33MF	20%	16V	
C1305	1-161-379-00	CERAMIC	0.01MF	20%	25V	
C1306	1-123-821-00	ELECT	47MF	20%	16V	
C1307	1-161-318-00	CERAMIC	390PF	10%	50V	
C1308	1-161-269-00	CERAMIC	68PF	5%	50V	
C1309	1-123-821-00	ELECT	47MF	20%	16V	
		DIODE				
D1301	8-719-921-55	DIODE SLP155B				
D1302	8-719-921-55	DIODE SLP155B				
D1304	8-719-904-92	DIODE GL-9HY2				
D1305	8-719-911-19	DIODE 1SS119				
D1306	8-719-911-19	DIODE 1SS119				
D1307	8-719-911-19	DIODE 1SS119				
D1308	8-719-911-19	DIODE 1SS119				
D1310	8-719-911-19	DIODE 1SS119				
D1313	8-719-911-19	DIODE 1SS119				
D1314	8-719-911-19	DIODE 1SS119				
D1316	8-719-911-19	DIODE 1SS119				
D1317	8-719-911-19	DIODE 1SS119				
D1320	8-719-911-19	DIODE 1SS119				
D1321	8-719-911-19	DIODE 1SS119				
D1322	8-719-102-58	DIODE RD3.6E-N2				

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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M T XR XG XB

Ref.No.	Part No.	Description				Remark
		IC				
IC1301	8-759-909-49	IC CX23040				
		COIL				
L1301	1-408-454-31	MICRO INDUCTOR 100UH				
		CONNECTOR				
M1	*1-564-453-11	PLUG, CONNECTOR (2.5MM) 5P				
M2	*1-564-451-11	PLUG, CONNECTOR (2.5MM) 3P				
M3	*1-564-453-11	PLUG, CONNECTOR (2.5MM) 5P				
M4	*1-564-451-11	PLUG, CONNECTOR (2.5MM) 3P				
		TRANSISTOR				
Q1301	8-729-178-54	TRANSISTOR 2SC2785				
Q1302	8-729-178-54	TRANSISTOR 2SC2785				
Q1303	8-729-178-54	TRANSISTOR 2SC2785				
		RESISTOR				
R1301	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1302	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1303	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1304	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1305	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1306	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1307	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1308	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1309	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1310	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1311	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1312	1-249-437-11	CARBON	47K	5%	1/6W	
R1313	1-249-441-11	CARBON	100K	5%	1/6W	
R1314	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1315	1-247-887-00	CARBON	220K	5%	1/6W	
R1316	1-249-425-11	CARBON	4.7K	5%	1/6W	
R1317	1-247-833-00	CARBON	1.2K	5%	1/6W	
R1318	1-247-823-00	CARBON	470	5%	1/6W	
R1319	1-249-405-11	CARBON	100	5%	1/6W	
R1320	1-249-429-11	CARBON	10K	5%	1/6W	
R1321	1-247-823-00	CARBON	470	5%	1/6W	
R1322	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1323	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1324	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1325	1-249-429-11	CARBON	10K	5%	1/6W	
R1326	1-249-433-11	CARBON	22K	5%	1/6W	
R1327	1-247-819-00	CARBON	330	5%	1/6W	
R1328	1-247-791-00	CARBON	22	5%	1/6W	
R1329	1-247-859-00	CARBON	15K	5%	1/6W	
R1338	1-249-417-11	CARBON	1K	5%	1/6W	
		SWITCH				
S1301	1-554-980-11	SWITCH, KEY BOARD				
S1302	1-554-980-11	SWITCH, KEY BOARD				
S1303	1-554-980-11	SWITCH, KEY BOARD				
S1304	1-554-980-11	SWITCH, KEY BOARD				
S1305	1-554-980-11	SWITCH, KEY BOARD				
S1306	1-554-980-11	SWITCH, KEY BOARD				
S1307	1-554-980-11	SWITCH, KEY BOARD				
S1308	1-554-980-11	SWITCH, KEY BOARD				
S1309	1-554-980-11	SWITCH, KEY BOARD				
S1310	1-554-980-11	SWITCH, KEY BOARD				
S1312	1-554-980-11	SWITCH, KEY BOARD				
S1313	1-554-980-11	SWITCH, KEY BOARD				
S1316	1-554-980-11	SWITCH, KEY BOARD				
S1317	1-554-980-11	SWITCH, KEY BOARD				
S1319	1-554-980-11	SWITCH, KEY BOARD				
S1321	1-553-651-00	SWITCH, SLIDE				
S1322	1-553-651-00	SWITCH, SLIDE				
S1323	1-553-651-00	SWITCH, SLIDE				
		CRYSTAL				
X1301	1-527-476-00	OSCILLATOR, CERAMIC				
	*1-618-230-11	T BOARD				
		IC				
IC1302	8-741-138-70	IC BX1387				
		SWITCH				
S1320	⚠1-554-980-11	SWITCH, KEY BOARD				
	*1-618-355-11	XR BOARD				
		CONNECTOR				
XR1	*1-560-278-00	PLUG, CONNECTOR 4P				
	*1-618-356-11	XG BOARD				
		CONNECTOR				
XG1	*1-560-721-21	PLUG, CONNECTOR 2P				
	*1-618-357-11	XB BOARD				
		CONNECTOR				
XB1	*1-560-278-00	PLUG, CONNECTOR 5P				

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KPR-36XBR
RM-736/APM-X4

Ref.No.	Part No.	Description	Remark
		MISCELLANEOUS	
		P-P CABLE	
⚠	1-237-279-11	RESISTOR ASSY, HIGH-VOLTAGE	
⚠	1-413-251-11	SWITCHING REGULATOR (SF-11)	
⚠	1-417-125-11	SELECTOR, ANTENNA	
⚠	1-451-292-11	DEFLECTION YOKE (SY-186)	
⚠	1-452-261-31	CRT NECK ASSY (362)	
⚠	1-452-361-12	NECK ASSY, CRT (NA365)	
⚠	1-452-361-22	NECK ASSY, CRT (NA365)	
⚠	1-453-099-11	DC BLOCK, HIGH-VOLTAGE	
⚠	1-463-471-33	SYNTHESIZER UNIT, FREQUENCY	
	1-536-722-00	TERMINAL, SPEAKER	
	1-536-995-11	TERMINAL BOARD, INPUT/OUTPUT	
*	1-551-382-00	CABLE P-P	
⚠	1-557-761-11	CORD, POWER	
⚠	1-570-258-11	SWITCH, THERMAL REED	
⚠	8-738-351-05	CRT (SD-186(G))	
⚠	8-738-352-05	CRT (SD-186(B))	
⚠	8-738-353-05	CRT (SD-186(R))	

ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Remark
A-1470-736-A	COMMANDER ASSY (RM-736)	
⚠ 1-417-135-11	MIXER, U/V	
* 4-347-308-01	SHEET, PROTECTION	
4-377-133-01	BAG, PROTECTION	
* 4-381-044-01	CUSHION (UPPER) (ASSY)	
* 4-381-045-01	CUSHION (MIDDLE) (ASSY)	
* 4-381-046-01	CUSHION (LOWER) (ASSY)	
* 4-381-047-01	BAND	
* 4-381-048-01	TRAY	
* 4-381-049-01	INDIVIDUAL CARTON (FOR MAUVE) (USA ONLY)	
* 4-381-066-01	INDIVIDUAL CARTON (FOR TAUPE) (USA ONLY)	
4-381-067-01	LABEL (C), PRESET (CND ONLY)	
* 4-381-068-01	INDIVIDUAL CARTON (CND ONLY)	
4-482-240-22	MANUAL, INSTRUCTION	
4-482-240-31	MANUAL, INSTRUCTION (CND ONLY)	
4-491-213-22	INSTRUCTION (USA ONLY)	

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